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ROYAL GARDENS, KEW.

BULLETIN

OF

MISCELLANEOUS INFORMATION.

No. 16.] APRIL. [1888.

XXXIX.—NEW GARDEN PLANTS.

The number of new garden plants annually described in various English and Foreign periodicals renders it a matter of considerable difficulty to botanists and horticulturalists to keep them in view.

As long ago as 1860 a list of new garden plants was published in the *Gardeners' Year Book and Almanack*, and this list was continued regularly until the *Year Book and Almanack* of 1886, which contained the new plants of the year 1885. The new plants up to October 1886 were published by instalments in the columns of the *Journal of Horticulture* during the months of January to May 1887 inclusive. Since that time no list of new plants has been published, and it is believed that it is no longer likely to be issued by private enterprise.

As the publication of a list of new garden plants is of the greatest possible interest to Botanical establishments everywhere, and as such a list would give information respecting many new plants grown at Kew, and distributed, in course of exchanges, to correspondents in all parts of the world, it has been determined to continue the list as one of the regular issues of the *Kew Bulletin*. It is believed that such a publication will be of service to the horticultural world generally.

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The present list embraces the new garden plants and alteration of names recorded between 1st October 1886 and 31st December 1887. To these have been added the names of authors, which did not appear in former lists. The full description of hybrids of garden origin and of garden varieties is not given, as otherwise the list would exceed the moderate limits within which it is necessary to confine it.

The publications from which the list is compiled are indicated by the abbreviation which immediately follows the name. They are :— Botanical Magazine, *B. M.*—Gardeners' Chronicle, *G. C.*—Gartenflora, *Gfl.*—Illustration Horticole, *Ill. H.*—Lindenia, *L.*—Reichenbachia, *R.* —Revue Horticole, *R. H.*—Warner and Williams' Orchid Album, *W. O. A.*—Warner's Select Orchidaceous Plants, *W. S. O. P.*

The abbreviations in the descriptions of the plants are :—*Infl.*, Inflorescence.—*L.*, Leaves.—*Fl.*, Flowers.—*Fr.*, Fruit.—*H.*, Hardy.—*H. H.*, Half-hardy.—*G.*, Greenhouse.—*S.*, Stove.—*Per.*, Perennial.—*Shr.*, Shrub.—*In.*, Inches.—*Lin.*, Line = one twelfth of an inch.—*Ft.*, Foot or Feet.—*Diam.*, Diameter.—*Pet.*, Petals.—*Sep.*, Sepals.

N.B.—Unless specified, all Orchids and Bromeliads may be considered to be stove epiphytes.

Abelia rupestris, var. **grandiflora,** André. (*R. H.* 1886, p. 488.) Caprifoliaceæ. H. shr. Garden variety.

Abies Nordmanniana, var. **horizontalis,** Carrière. (*R. H.* 1887, p. 151.) Coniferæ. H. tree. Garden variety.

Acanthus Caroli-Alexandri, Hausskn. (*Gfl.* 1886, p. 626–635, f. 73–75.) Acanthaceæ. H. per., with a lax rosette of a few lanceolate, pinnatifid, spinose toothed radical l., growing to about 16 in. long by 3–4 in. broad, and a stem 9–18 in. high, with 2–4 similar l., and ending in a dense spike of white fl., often suffused with rosy. Greece.

Acer palmatum, var. **dissectum roseo-pictum.** (*Gfl.* 1886, p. 569.) Sapindaceæ. H. tree. Garden variety.

Acer platanoides, var. **integrilobum,** Zabel. (*Gfl.* 1887, p. 431, f. 107–108.) H. tree. Garden variety.

Acer platanoides, var. **undulatum.** Carrière. (*R. H.* 1887, p. 63.) H. tree. Garden variety.

Achillea rupestris, Huter. (*B. M.* t. 6905, *R. H.* 1887, p. 166.) Compositæ. H. per. A pretty alpine plant of dwarf tufted habit, with rosettes of linear-spathulate, obtuse, pubescent, entire greyish-green l., and sparsely leafy stems, 4–6 in. high, with small corymbs of small white fl.-heads, with very broad ray florets. South Italy.

Adesmia balsamica, Bert. (*B. M.* t. 6921.) Leguminosæ. G. A very beautiful floriferous shr., much branched, branches slender. L. small pinnate. Fl. in lax racemes, bright golden yellow, about ½ in. in diameter. Pod 1 in. long, with 6–8 rounded joints. Chili.

Adiantum assimile, var. **cristatum,** Bull. (*Bull Cat.*, p. 9.) Filices. G. A form with elegantly-crested fronds. Victoria.

Adiantum Burnii, T. Moore. (*G. C.* 1887, v. 1, p 447.) Garden variety.

Adiantum capillus-veneris, var. **digitatum,** T. Moore. (*G. C.* 1887, v. 1, p. 547,) and var. **imbricatum,** T. Moore. (*G. C.* 1887, v. 1, p. 547.) H. or G. Garden varieties.

Adiantum cyclosorum, T. Moore. (*G. C.* 1887, v. 1, p. 547.) S. A handsome and well-marked deciduous species. Fronds 1½–2 ft. long, triangular, tripinnate, glabrous; pinnæ spreading ovate, stalked; pinnules rather large, 5–9 lines long, rhomboid, bearing 8–10 large, circular, marginal sori. Ecuador.

Adiantum Daddsii, T. Moore. (*G. C.* 1887, v. 1, p. 42.) G. Garden hybrid.

Adiantum festum, T. Moore. (*G. C.* 1887, v. 1, p. 110.) G. Garden hybrid.

Adiantum fragrantissimum, Henderson. (*G. C.* 1887, v. 1, p. 447, and v. 2, p. 198–9, f. 49.) S. Garden variety.

Adiantum hians, T. Moore. (*G. C.* 1887, v. 1, p. 41.) S. An ornamental Maidenhair Fern, with triangular-ovate tripinnate fronds having black stipes. Pinnules variable, roundish, balloon-shaped transversely oblong, or rhomboidal, the end rounded, bearing 1–2 large, broadly gaping sori. New Caledonia.

Adiantum Oweni, T. Moore. (*G. C.* 1887, v. 1, p. 110.) G. Garden hybrid.

Adiantum Waltoni, T. Moore. (*G. C.* 1887, v. 1, p. 111.) G. Garden variety.

Æchmea flexuosa, Baker. (*G. C.* 1887, v. 1, p. 8.) Bromeliaceæ. S. epiphyte, one of the largest of the genus, with a rosette of 20–30 large horny l., 3 ins. broad, bright green spotted with whitish, prickles small and pale. Fl.-stem about 3 ft. high, panicle lax, ovate, with zigzag ultimate branchlets. Fl. distant; sessile glabrous; calyx and ovary pale pink, pet. bright red. Mr. Baker has now identified this with **Æ. spectabilis.** Brongn.

Æchmea mexicana, Baker. (*G. C.* 1887, v. 1, p. 8.) S. epiphyte. A fine handsome species, with a dense rosette of 20–30 l., 2 ft. or more long, 3 ins. broad, with a deltoid-cuspidate tip, pale green spotted with darker green, prickles small. Fl.-stem 2 ft. high, densely mealy; panicle oblong-cylindrical, 4–5 ins. broad. Calyx and ovary green, densely mealy, petals bright crimson. Mexico.

Æchmea myriophylla, Baker. (*B. M.* t. 6939; *G. C.* 1887, v. 2, p. 108.) S. A distinct-looking species with a dense rosette of narrow, attenuate, channelled l., 2–2½ ft. long, 1 in. broad, armed with close brown prickles on the margins, dull green, sprinkled with silvery scales on the back. Fl.-stem 1½ ft. high, panicled above, and as well as the bracts and calyces bright red. Fl. distichous, pink fading to lilac. Trop. America.

Æchmea Weilbachii. var. **leodiensis,** André. (*R. H.* 1887, p. 31). S. epiphyte. A var. with a rosette of about 40 l. armed on the basal half with more crowded and larger spines than in the type, upper surface dark olive and bright green, beneath with the basal part washed with violet-brown and spotted with blood-red. Fl.-stem shorter than the l. Bracts scarlet, mixed with violet and green. Fl. smaller than in the type. Brazil.

Aerides odoratum, var. **birmanicum,** Rchb. f. (*G. C.* 1887, v. 2, p. 272.) Orchideæ. A small-flowered var. with only a light purple line at the tips of the lateral sep., and the mid lobe of the lip very narrow and purple. Burmah.

Aerides quinquevulnerum, var. **Schadenbergiana,** Stein. (*Gfl.* 1886, p. 606.) A var. of more compact habit with shorter and broader l. than in the type.

Aerides virens, var. **Ellisii,** Williams. (*W. O. A.* v. 7, pl. 298.) A strong-growing form with longer racemes than in the type, being 18–20 in. long. Sep. and pet. white with amethyst tips. Lip white, with the side lobes and base of the spur spotted with amethyst, the middle lobe rich amethyst, and the tips of the spur greenish. Java.

Agalma vitiensis, Seem. (*Gfl.* 1887, p. 71, **Agalina** by a misprint.) Araliaceæ. S. shr. with digitate l., the leaflets obovate-oblong, obtuse, narrowed into the petiole, entire, with horizontally spreading veins. Umbels 3–7 flowered. Fiji.

Agave Henriquesii, Baker. (*G. C.* 1887, v. 1, p. 732; and v. 2, p. 307, f. 70.) Amaryllidaceæ. S. succulent, intermediate between *A. xylonacantha* and *A. horrida*. Acaulescent. L. 2 ft. long, 5 in. broad, oblong-lanceolate, bright green, margined with a dark brown horny border, and armed with broad based prickles ¼ in. long. Fl.-stem 12–14 ft. high, the spike-like panicle occupying half of it. Ovary green, above 1 in. long, fl. with a very short tube, and lanceolate segments an inch long, tinged with brown. Mexico?

Agave Morrisii, Baker. (*G. C.* 1887, v. 1, pp. 543 and 549, f. 105.) S. succulent, allied to *A. americana*, but the l. are larger, 6–7 ft. long, and nearly 1 ft. broad, not glaucous, not so thick, and with smaller prickles. Fl. stem 15–20 ft. high, with 30–50 candelabra-like branches. Fl. 2–2½ in. long, bright yellow. Jamaica.

Agave Villarum, André. (*R. H.* 1886, p. 465.) S. Garden hybrid.

Aglaonema nebulosum, N. E. Br. (*Ill. H.* v. 34, p. 67, pl. 24.) Araceæ. S. foliage per, much like A. pictum, having short broad sheaths to the petioles, and oblong or obovate-oblong l., obliquely and somewhat abruptly acuminate at apex, obtuse at the base, bright dark green irregularly blotched with whitish green. Java.

Allamanda cathartica, var. **Hendersoni.** (*Gfl.* 1887, pp. 554 and 560–1, f. 142.) Apocyneæ. S. Garden variety. Syn *A. Hendersoni.*

Allium elatum, Rgl. (*Gfl.* 1887, p. 369, t. 1251.) Liliaceæ. H. bulb with large, oblong, obtuse l., 8–12 in. long, 2–4 in. broad. Scape stout 3 ft. or more high, with a large globose head of numerous purple fl., with spreading, oblong, obtuse segments. Central Asia.

Alocasia Chantrieri, André. (*R. H.* 1887, p. 465, f. 92.) Araceæ. S. Garden hybrid.

Alocasia eminens, N. E. Br. (*G. C.* 1887, v. 1, p. 105.) S. A fine bold-habited species allied to *A. Thibautiana*. L. peltate, ovate-sagittate, growing to 20–22 ins. long, by 9–10½ ins. broad, dark green above, purple beneath

on petioles 3½–4½ ft. long. Peduncles, 12–18 ins. long., light green. Spathe, 5–5½ ins. long., with a light green tube, and a reflexed, oblong, acute, pale greenish-white limb. Spadix creamy-white. Malay Archipelago, Borneo ?

Alocasia Luciana, Rodigas. (*Ill. H.* v. 34, p. 75, pl. 27.). S. Garden hybrid.

Alocasia margaritæ, Lind. and Rod. (*Ill. H.*, v. 33, p. 155, pl. 611.) S. foliage plant, well distinguished by its pubescent brownish purple petioles ; the large blade of the leaf is cordate - sagittate acute, repand, rather thick, somewhat bullate, dark green, with blackish nerves. Java.

Alocasia marginata, N. E. Br. (*G. C.* 1887, v. 2, p. 712.) S. foliage plant of bold habit. Petioles 2–3½ ft. long, pale green, marked with zig-zag blackish-brown bars, and the sheath broadly margined with the same colour. Blade of l. 1½–2 ft. long, 11–14 in. broad, broadly cordate-ovate, margin slightly sinuate, apex shortly pointed, basal lobes oblong, obtuse, with a deep narrow sinus between them ; upper surface dark green, dull leaden-green, or purplish tinted beneath. Peduncle 9–10 ins. long, pale rose - tinted, faintly barred. Spathe 6–7 ins. long, the tube green, marked with blackish lines and dots, limb boat-shaped, greenish-white. Spadix as long or longer than the spathe. Brazil.

Alocasia Pucciana, André. (*R. H.* 1887, p. 466.) S. Garden hybrid.

Alocasia Villaneuvei, Linden and Rod. (*Ill. H.* v. 34, p. 59, pl. 21.) S. A large, bold-habited foliage plant, having the petioles spotted with brown, and the large ovate, cordate-sagittate l. of a bright dark-green. Borneo.

Alpinia zingiberina, Hook. f. (*B. M.* t. 6944, *G. C.* 1887, v. 2, p. 108.) Scitamineæ. S. per. of economic value. Rhizome stout, irregularly branched. Stems 4–5 ft. high, leafy. L. 10–12 in. long, oblanceolate - oblong, acute, dark green with a pale midrib, and pale green beneath. Panicle 10–12 in. long. Fl. an in. long, pale green, with a white lip veined with red on each side of a yellow disk, and having two horn-like processes at its base. Siam.

Alseuosmia macrophylla, A. Cunn. (*B. M.* t. 6951.) Caprifoliaceæ. G. shr. with alternate, elliptic-lanceolate, acute, serrate l., narrowed below into the petiole; and axillary clusters of drooping, sweetly-scented fl. 1½ in. long, with a cylindric tube widening at the mouth, and five spreading-fringed lobes, white, streaked with red. New Zealand.

Alsophila atrovirens, var. **Keriana,** Baker. (*G. C.* 1887, v. 1, p. 639.) Filices. S. Fern of ornamental character. Fronds bipinnate, oblong-lanceolate, 15–18 in. long, 6 in. broad; pinnæ lanceolate, 3–4 in. long, 1 in. broad; pinnules oblong, obtuse, crenate; sori placed midway between the midrib and margin. Stipes, 6–8 in. long, brown, muricated, without scales.

Alyxia bracteolosa, Rich. (*Gfl.* 1887, p. 71.) Apocyneæ. S. climber, with the l. in threes, oblong or sublanceolate, obtuse or acuminate, acute or rounded at the base. Cymes axillary many flowered, shortly pedunculate. Fl. hypocrateriform, with a long tube, pale yellow. Fiji.

Amaraboya amabilis, Linden. (*Ill. H.* v. 34, p. 27, pl. 9.) Melastomaceæ. G. A beautiful shr. with terete purplish stems ; large, opposite, elliptic, three-nerved l., and terminal umbels of large fl., pinkish-white, edged with carmine. New Granada.

Amaraboya princeps, Linden. (*Ill. H.* v. 34, p. 15, pl. 4.) S. on G. A magnificent shr., with square stems, large, elliptic, sessile, 3-nerved l., dark green above, purplish beneath, and terminal, few-flowered cymes, of very large, showy, bright carmine fl., with white stamens. New Granada.

Amaraboya splendida, Linden. (*Ill. H.* v. 34, p. 15, under A. princeps, and p. 94, pl. 34.) Somewhat similar to the above, but with larger carmine fl., which shades into rose and almost to white around the centre. New Granada.

Amasonia calycina, Hook. f. (*B. M.* t. 6915 ; *R. H.* 1887, p. 192.) Verbenaceæ. S. A handsome shr. with lanceolate, acuminate, toothed on sinuate l., and showy racemes of drooping, yellowish, tubular fl., with the calyx and the large leafy bracts bright crimson. British Guiana. Syn. *A. punicea* of gardens.

Andromachia Maroni, André (*R. H.* 1887, p. 426.) Compositæ. G. or H. H. herbaceous per. of ornamental character, about 2 ft. high, white-tomentose. L. petiolate, triangular-hastate, distantly toothed, 4–5 in. long, 3–4 in. broad. Heads corymbose, on long peduncles, radiate, pale yellow. Brazil.

Andromeda japonica, var. **elegantissima,** Carrière. (*R. H.* 1887, p. 83.) Ericaceæ. H. Garden variety.

Angræcum avicularium. (*G. C.* 1887, v. 1, p. 40.) Orchideæ. L. 4 in. long, 2½ in. broad, cuneate, oblong-elliptical 2-lobed. Fl. racemose, white ; sep. and pet. lanceolate - cuspidate

lip oblong, cuspidate, narrow at base; spur 4–5 in. long.; anther and rostellum resembling a bird's head.

Angræcum calligerum, Rchb. f. (*G. C.* 1887, v. 2, p. 552.) L. slightly glaucous, bilobed at apex. Fl. as large as those of A. Ellisii, with oblong, acute sep., having a semi-oblong tubercle on the base of the keel; cuneate-oblong acute pet.; and a pandurate acute lip, with a slender spur 6–7 times longer than the ovary.

Angræcum Grandidierianum, Carrière. (*R. H.* 1887, p. 42, f. 9.) A dwarf species with thick oblong l., obtuse and unequally two-lobed at the apex. The fl. are not described at the above place, but Reichenbach (*Flora* 1885, p. 381) describes the raceme as being 1–3 flowered; the sep. cuneate-oblong, acute; the pet. spathulate, apiculate; and the lip cordate pandurate or cordate-oblong, blunt, with a long filiform spur. The fl. are ivory white and about the same size of those of *A. Chailluanum.* Comoro Islands. Syn. *Aeranthus Grandidierianus,* Rchb. f.

Angræcum ichneumoneum, Lindl. (*G. C.* 1887, v. 2, p. 681.) L. oblong, a ft. long, by 2 ins. broad, unequally bilobed at the apex, shining dark green. Racemes long, lax. Bracts cup-shaped. Sep. and pet. oblong, subacute dirty ochreous-white. Spur much thickened at the apex. W. Tropical Africa. Syn. *Listrostachys ichneumonea.* Rchb. f.

Angræcum imbricatum, Lindl. (*G.C.* 1887, v. 1, p. 15.) A rather curious looking species, with a tall strong stem, leathery, cuneate-oblong, bluntly bilobed l., and clusterlike racemes of sweet-scented creamy-white fl., with orange and yellow lips. Sep. and pet. lanceolate. Lip flabellate, retuse, apiculate, convolute, spur recurved, blunt, not half as long as the blade of the lip, which it nearly touches.

Anguloa Ruckeri, var. **media,** Rchb. f. (*L.* v. 2, p. 13, pl. 53.) Orchideæ. A handsome var. with yellow fl. densely covered on the inside of the sep. and pet. with crimson spots and having a crimson lip. Columbia.

Anæctochilus Lansbergiæ, Linden. (*Ill. H.* v. 34, p. 7, pl. 1; *G.C.* 1887, v. 1, p. 421.) Orchideæ. S. terrestrial orchid. A very beautiful dwarf foliage plant, with broadly ovate acute l., the ground colour of which is of a dark velvetty green in the middle, reticulated with emerald green, shading into rich brown reticulated with old gold on the borders and edged with yellow. Fl. unknown. Malaya.

Ansellia confusa, N. E. Br. (*L.* v. 2, p. 36.) Orchideæ. This is the plant figured in the Botanical Register for 1846, t. 30, as *A. africana.* It differs from typical *A. africana* in having its pet. scarcely broader than the sep. W. Trop. Africa.

Anthurium acutum, N. E. Br. (*G. C.* 1887, v. 2, p. 776.) Araceæ. S. per. A distinct-looking species about a ft. high, with slender petioles, and triangular hastate, exceedingly acute, dark green l. Peduncle 12–14 in. long, terete, spathe reflexed, 2–2¼ in. long, ⅓ in. broad, tapering to a subulate apex. Spadix subsessile 2¾–3 in. long, tapering, dull dark green. Brazil.

Anthurium Andreanum, var. **flore albo.** (*R. H.* 1887, p. 171.) Garden variety.

Anthurium brevilobum, N. E. Br. *G. C.* 1887, v. 1, p. 380,) S. A moderate-sized species with petioles 12–15 in. long, terete, acutely channelled down the face; and cordate-ovate blades 8–10 in. long, 4–5 in. broad, somewhat abruptly acuminate at apex, bright shining green. Peduncle 12–16 in. long. Spathe 2 in. long, ⅓ in. broad, narrow lanceolate acuminate, purplish. Spadix dark purple-brown, slender, 3–4 in. long on a stalk ⅛–⅜ in. long.

Anthurium punctatum, N. E. Br. (*G. C.* 1886, v. 26, p. 809.) S. per. in the way of *A. Harrisii* and *A. Bakeri.* Petioles 6–8 in. long, acutely channelled down the face, keeled or rounded on the back; blade 14–20 in. long, 2¾–4½ in. broad, elongate-oblong, somewhat abruptly acute, cuneate at base, bright dark green above, paler with blackish dots beneath. Peduncle 12–18 in. long, terete. Spathe spreading or reflexed, 3½–4½ in. long, linear-oblong, cuspidate-acuminate, margins revolute, reddish above, green beneath, changing to greyish-green or purplish-green. Spadix 6–9 in. long, slightly tapering, olive-green. Ecuador.

Anthurium purpureum, N. E. Br. (*G. C.* 1887, v. 1, p. 575.) S. evergreen per. with ascending stem. Petioles 3–6 in. long, rounded on the back with a broad shallow channel down the face; the blade is 12–16 in. long, 3–3¾ in. broad, oblong-lanceolate acute, cuneate-acute at base. Peduncle a ft. long. Spathe spreading or reflexed, 4¼ in. long, 1 in. broad, purple on both sides, with a green base. Spadix 6 in. long, slightly tapering, rich violet-purple. Brazil.

Anthurium Scherzerianum, var. **bruxellense,** Linden. (*Ill. H.* v. 34, p. 51, pl. 18.) S. Garden variety.

Anthurium Scherzerianum, var. parisiense, Carrière. (*R. H.* 1887, p. 144; *Ill. H.* v. 34, p. 47, pl. 16.) S. Garden variety.

Aphelandra chrysops, Bull. (*Bull Cat.* p. 9 and 7 with fig.; *G. C.* 1887, v. 1, p. 736, p. 140.) Acanthaceæ. S. This is the same as **A. squarrosa, var. Leopoldi,** Van Houtte.

Aquilegia flabellata, Carrière. (*R. H.* 1887, p. 548, f. 110.) Ranunculaceæ. H. per. Garden variety.

Ardisia capitata, A. Gr. (*Gfl.* 1887, p. 70.) Myrsineæ. S. shr. L. crowded at the apex of the thick branches, a ft. or more long, obovate-spathulate, entire, shortly stalked. Peduncles axillary, compressed, bearing a cone-like head of greenish-white fl., succeeded by bright red berries. Fiji.

rdisia mamillata, Hance. (*G. C.* 1887, v. 2, p. 810, and 809, f. 154) S. An ornamental plant of dwarf compact habit, hairy, l. shortly stalked, oblong, about 4 in. long, by 1½–2 in. broad, of a dark green, papillate above. Fl. white, tinged with rose, umbellate, on axillary peduncles 2 in long. Berries as large as a pea, brilliant rose-red. China.

Aristea platycaulis, Baker. (*G. C.* 1887, v. 1, p. 732.) Iridaceæ. G. per. A well-marked species, having a flat stem nearly as broad as the ensiform l., which grow to a ft. in length and an inch in breadth. Fl. in dense clusters, on short pedicels, blue. Pondoland.

Aristolochia hians, Willd. (*G. C.* 1887, v. 1, p. 40.) Aristolochiæ. S. climber, very similar to A. brasiliensis in foliage and form of fl., but the beak of the fl. is much longer than the broad reniform lobe, which is smaller than that of A. brasiliensis. Outside of fl. bronzy-green, with the veins and margin of beak yellowish-green; inside of the broad lobe dull yellowish-green, veined and spotted with purple-brown. Venezuela.

Aristolochia salpinx, Mast. (*G. C.* 1886, v. 26, p. 456 and 457, f. 92.) G. climber. L. cordate-ovate acuminate, glabrous 4–6 in. long, 2½–3 in. broad. Fl. about 1½ in. long, inflated at base, then abruptly constricted and bent upwards in the form of a dorsally compressed, trumpet-shaped tube, with an oblique mouth, outside cream-coloured, with purple network of veins, inside lighter, the upper lip with a yellow central blotch and numerous purplish spots around it; the margin is slightly reflexed, marked with purple lines and a few short purple hairs. Paraguay.

Asphodelus comosus, Baker. (*G. C.* 1887, v. 1, p. 799.) Liliaceæ. H. per., resembling *A. ramosus*, but differing in the long bracts, which protrude beyond the fl., and in the much exserted stamens. L. 1½ ft. long, 1½ in. broad ensiform, glaucous. Fl.-stem 2½ ft. high paniculately branched; fl. white with green keels to the segments. N. W. Himalaya.

Asplenium amboinense, Brackenridge. (*Williams' Cat.*, p. 20.) Filices. S. Fern with creeping stem clothed with black subulate scales and numerous evergreen lanceolate fronds, a ft. or more long, 1–1½ in. broad, narrowing below into a stipes of about 1 in. long, and with the apex truncate, having a scaly bud at the end of the midrib and a small forked or multifid continuation of the frond. South Sea Islands.

Asplenium scandens, J. Sm. (*G. C.* 1887, v. 1, p. 639.) S. A beautiful climbing fern, with sessile, lanceolate, decompound fronds, a ft. long, narrowed gradually from the middle to base and apex. Sumatra.

Aster angustus, Torr. and Gr. (*G. C.* 1886, v. 26, p. 659.) Compositæ. H. per. of little beauty, 1–2 ft. high, branching, with numerous spicately panicled heads, having the ray florets reduced to a rudimentary condition. N. America and N. Asia.

Aster pseudamellus, Hook. f. (*G. C.* 1886, v. 26, p. 659.) H. per. 6–18 in. high, allied to A. amellus, but with larger involucre bracts and toothed l.; stems rough, bearing a few corymbose heads 1–1¾ in. in diam., with bluish-purple rays. L. 1–2 in. long, oblong, acute or obtuse, entire or toothed, obscurely nerved. Involucre bracts with broad reflexed leafy tips. Western Himalayas, 8,000–13,000 ft.

Aster Stracheyi, Hook. f. (*B. M.* t. 6912; *G. C.* 1886, v. 26, p. 659; and *R. H.* 1887, p. 167, as *Acer Stracheyi*.) H. per. of distinct character, suitable for rockwork. Very dwarf and stoloniferous, 1–4 in. high, pubescent or villous. Radical l. obovate-spathulate, toothed, stem-l. 1–2 in. long, sharply serrate. Stem, with 1 to few fl.-heads, an in. in diam. Involucre of a few narrow scales, scarcely imbricating. Ray, bluish-purple. Western Himalayas, 12,000–13,000 ft.

Aster tricephalus, Clarke. (*G. C.* 1886, v. 26, p. 686.) H. per 1–2½ ft. high, with leafy puberulous stems, bearing 1–3 large showy heads with purple rays. Radical l. obovate-spathulate on long winged petioles, entire, glabrous or hairy; stem l. oblong, half amplexicaul. Sikkim, 10,000–11,000 ft.

Athyrium filix-foemina, var. **acroclodon Wilsoni,** Woll. (*G. C.* 1887, v. 1, p. 185–6.) Filices. H. A variety which is stated to be intermediate between the varieties *rhæticum* and *crispum*, but no description is given. Scotland.

Azalia obtusa, var. **alba,** Veitch. (*Veitch Cat.*, p. 9.) Ericaceæ. G. shr. A var. with white fl. Japan.

Baeria gracilis, A. Gr. (*Gfl.* 1887, p. 392, f. 96.) Compositæ. H. annual 6–10 in. high, branching from the base, with opposite linear l. and solitary radiate heads of bright yellow fl., about ¾ in. in diam. California.

Bakeria vitiensis, Seem. (*Gfl.* 1887, p. 71.) Araliaceæ. S. A small tree with an unbranched stem. L. digitate, with 5–10 petiolate, elliptic-obovate leaflets with blunt points. Fl. in large compound umbels, green. Fiji.

Bambusa Castilloni, Marliac. (*R. H.* 1886, p. 513, f. 122.) Gramineæ. H. Bamboo with square stems, curiously variegated, one side of each internode being dark green and the other side yellow, these colours alternating in the next internode. L. also varegated. Japan.

Bambusa Weiseneri, Carrière. (*R. H.* 1887, p. 83.) Gramineæ. H. Bamboo. Garden variety, of Japanese origin.

Barleria repens, Nees. (*B. M.* t. 6954, *G. C.* 1887, v. 2, p. 341.) Acanthaceæ. S. A dwarf, prostrate, much-branched shrublet, with elliptic or obovate, obtuse l., 1–2½ in. long, narrowed into a petiole, and solitary axillary, deep rose-coloured fl., 1–1½ in. in diam., funnel-shaped, with 5 oblong spreading lobes. E. Trop. Africa.

Begonia cyclophylla, Hook. f. (*B. M.* t. 6926.) Begoniaceæ. G. A pretty and distinct-looking tuberous sp., with a solitary, orbicular-cordate, sparsely hairy, deep green l., having overlapping basal lobes, and pedunculate cymes of bright rose-pink fl. an in. in diam. South China.

Begonia egregia, N. E. Br. (*G. C.* 1887, v. 1, p. 346; *Bull Cat.*, p. 9.) S. An evergreen species with a tall-growing thick stem; peltate, obliquely-oblong, acuminate, bright green, thin l., which are rough from hair-bearing papillæ; and terminal drooping corymbose cymes of numerous white fl. ½-in. in diam. Brazil.

Begonia Johnstoni, Oliver. (*B. M.* t. 6899, *R. H.* 1887, p. 45.) S. per., 1–1½ ft. high, glabrous, stems succulent, pale green spotted with red. L. on long petioles, obliquely cordate-ovate, acute, crenate, the basal lobes overlapping, dark green above, paler beneath. Cymes few-flowered, on long peduncles, fl. pale rose, the males about 1 in., the females about ½ in. in diam. E. Trop. Africa.

Betula Medwediewi, Rgl. (*G. H.*, 1887, p. 383, f. 95, 1–4.) Cupuliferæ. H. tree with glabrous branches and elliptic-ovate, acutely-toothed glabrous l., with the midrib beneath and the petiole pubescent. Catkins cylindric, the males about 1¼ in. long, the females shorter. Transcaucasus.

Betula Raddeana, Trautz. (*Gfl.* 1887, p. 383, f. 95, 5–11.) H. tree, with the young shoots softly pubescent. L. small, ovate, acutely toothed, pubescent beneath on the nerves and in the angles of the nerves. Catkins ovoid-oblong, ¾–1 in. long. Caucasus.

Billbergia Gireoudiana, Kram. and Wittm. (*Gfl.* 1887, p. 330.) Bromeliaceæ. S. Epiphyte. Garden hybrid.

Bollea pulvinaris, Rchb. f. (*L.* v. 2, p. 29, pl. 61) Orchideæ. This does not appear to differ from **Zygopetalum cœleste,** Rchb. f.

Bougainvillea refulgens, Bull. (*Bull Cat.* p. 9.) Nyctagineæ. S. climber. A form with large brilliant purple-mauve bracts. Brazil.

Brahea nitida, André. (*R. H.* 1887, p. 344, f. 67–70.) Palmæ. H.H. palm with large fan-like, palmatifid, glaucous-green l.; and very large, much branched glabrous spadices. Fr. small, about the size of a pea, black. Mexico.

Briza rotundata, Steud. (*Gfl.* 1887, p. 638, f. 158.) Gramineæ. H. annual. An ornamental grass with erect narrow acute l., and narrow panicles of erect spikelets. Mexico, Brazil, and Chili.

Brodiæa Douglasii, Wats. (*B. M.* t 6907; *R. H.* 1887, p. 166.) Liliaceæ. Syn. *Triteleia grandiflora*.

Brunsvigia Massaiana, Linden and Rod. (*Ill. H.* v. 34, p. 55, pl. 19.) See *Crinum Massaiana*.

Bulbophyllum grandiflorum, Rchb. f. (*L.* v. 3, p. 27, pl. 108.) Orchideæ. A grotesque-looking plant, more remarkable than beautiful, with a creeping rhozome, bearing distant four-angled bulbs about 1 in. long, with one ellipitic l. about 2½-3 in. long, by 1½ in. broad, and very large solitary fl., densely reticulated with brown on a pale ground colour. Seps. lanceolate-attenuate, 4–5 in. long, free, the upper one twice as broad as the lateral sep., strongly arching over at the base and hanging down in front of the fl. New Guinea.

Burlingtonia caloplectron, Rchb. f. (*Williams' Cat.*, p. 21.) Orchideæ. A handsome species with small oblong two-

edged bulbs, with solitary, thick, lanceolate l., and pendulous few-flowered racemes of rose-coloured fl., about the size of those of *B fragrans*.

Calanthe Sanderiana, Williams. (*Williams' Cat.*, p. 21.) Orchideæ. A distinct spring-flowering species, with long, many-flowered racemes of deep rose-coloured fl., having a bright rosy-crimson lip, similar to that of *C. veratrifolia*, var. *Regnieri* in shape. Cochin China.

Calanthe veratrifolia, var. **Regnieri,** Rchb. f. (*G. C.* 1887, v. 2, p. 70.) A var. with white sep. and pet., and a light ochre lip, with diverging, nearly semilunate side lobes Cochin China. Syn. *C. Regnieri* (*G. C.* 1887, v. 2, p. 108.)

Calceolaria Burbidgei. (*G. C.* 1886, v. 26, p. 464.) Scrophulariaceæ. G. Garden hybrid.

Calliandra tergemina, Benth. *G. C.* 1887, v. 2, p. 366.) Leguminosæ. S. shr. of ornamental character, with pinnate grey-green l., zig-zag branches, and globose heads of white fl., having the filaments tipped with red. Tropical America.

Campanula Wanneri, Rochel. (*Gfl.* 1887, p. 444, f. 112.) Campanulaceæ. H. alpine plant, about 6 in. high, pubescent. L. lanceolate acute, dentate, the lower ones stalked. Fl. from the axils of the stem l., pedunculate; calyx lobes lanceolate, acute; corolla blue, an in. long, erect, campanulate, with very short broad lobes. Banat.

Canarium vitiense, A. Gr. (*Gfl.* 1887, p. 71.) Burseraceæ. S. A small tree with pinnate l., having 5–7 oblong-elliptic, obtuse leaflets, and panicles of small yellowish-white fl., succeeded by bluish-black fruit. Fiji.

Caragana pendula, Carrière. (*R. H.* 1887, p. 298.) Leguminosæ. H. shr. Garden variety of **C. arborescens.**

Caraguata Morreniana, Andrè. (*R. H.* 1887, p. 12, with pl. *G. C.* 1887, v. 1, p. 251.) Bromeliaceæ. S. epiphyte. A handsome plant, with a large rosette of l. 16–20 in. long, by 2 in. broad, with recurved acuminate tips; the outer ones dark green, gradually passing, by being shaded and tinted with violaceous, into the violaceous floral l. Fl.-stem 4–6 in. long, bearing a large compact head of yellow fl., with bright red bracts. Rio Cuaiquer, New Granada.

Carex scaposa, Clarke. (*B. M.* t. 6940; *G. C.* 1887, v. 2, p. 108.) Cyperaceæ. G. or S. A remarkable and ornamental Sedge, with broad, lanceolate, acute l., narrowed into a petiole at the base, and erect, loose panicles of brownish-red spikelets. South China.

Carmichælia Mulleriana, Rgl. (*Gfl.* 1887, p. 611.) Leguminosæ. G shr., about 2 ft. high. Branches slender, compressed, pinnately branched, the branchlets filiform, compressed. L., with 1–3 small, obvate, emarginate leaflets, about ¼ in. long, on a rather longer petiole. Fl. solitary or in pairs in the axils of the l., small, whitish, striate with purple. New Zealand?

Catalpa syringæ, var. **foliis argenteis,** Lovyman. (*R. H.* 1887, p. 64.) Bignoniaceæ. H. tree. L. variegated. Garden variety.

Catasetum Bungerothi, var. **aureum,** Linden (*L.* v. 3, p. 43, pl. 116.) Orchideæ. A distinct var., with light yellow fl. Venezuela.

—— Var. **Pottsianum,** Linden. (*L.* v. 3, p. 19, pl. 104; *G. C.* 1887, v. 2, p. 341.) A var. having the pet. prettily spotted with purple, and with a few spots on the centre of the lips.

Catasetum costatum, Rchb. f. (*G. C.* 1887, v. 1, p. 72.) A curious species with yellowish sep. and pet. Lip with erect triangular side lobes, ciliate on the upper border, mid lobe lower, extending into a low blunt triangle, standing over the long blunt cone, obscurely ribbed, mouth contracted.

Catasetum cristatum, var. **stenosepalum,** Rchb. f. (*Ill. H.* v. 34, p. 71, pl. 25.) A var. with narrow linear-lanceolate purple-brown sep., and rather shorter dull purple pet. striata with blackish-purple. Lip green, fringed, having a triangular basal-fringed crest.

Catasetum fimbriatum, var. **viridulum,** Rchb. f. (*G. C.* 1827, v. 2, p. 272.) A var. with green fl. spotted with reddish-purple, and having a depressed crest on the lip.

Catasetum galeritum, Rchb. f. (*L.*, v. 2, p. 41, pl. 67; *G. C.* 1886, v. 26 p. 616.) A fine species allied to *C. atratum*, with a several-flowered lax raceme of rather large fl. Sep. and pet. oblong, acute, pale green, spotted with brown. Lip saccate, oblong, conical at the apex, pale green, ochreous in front, marked with brown around the mouth, and marked with brown on a yellow ground inside. Columbia?

Catasetum pileatum, Rchb. f. (*G. C.* 1886, v. 26, p. 616.) A fine species with rather large white fl. Sep. narrow oblong, acute, petals broadly oblong, acute. Lip large, broadly triangular, with a bluntly conical spur. Column, with a very long beak.

Catasetum sanguineum, var. **integrale,** Rchb. f. (*G. C.* 1887, v. 2, p. 214). A trifling var. with an entire lip.

Catasetum trulla, var. **subimberbe**, Rchb. f. (*G. C.* 1887, v. 2, p. 552.) A var. without a fringe of hairs to the lip.

Cattleya Bullieri, Carrière. (*R. H.* 1886, p. 444, with pl.) Orchideæ. This is a trifling form of **C. labiata**, var. **Trianæ**, Duchartre.

Cattleya calummata, Bleu. (*G. C.* 1886, v. 26, p. 524, f. 104; *Gfl.* 1887, p. 88, f. 31.) Garden hybrid.

Cattleya Dukeana, Rchb. f. (*G. C.* 1887, v. 1, p. 576.) Bulbs about 2 ft. high. L. 5 ins. long, $2\frac{1}{2}$ ins. broad, purplish-green. Sep. shining, light ochre outside; the upper one washed with dull mauve-purple inside, with a green apex; the lateral ones bent at an angle, mauve-purple on basal part, brownish on apical part. Pet. broader, wavy, mauve-purple on the disk, lighter on the borders. Lip with the side lobes not quite covering the column, white with light purple margins, front lobe broadly stalked, reniform, toothed, and covered with warts, mauve-purple with a narrow white border, the disk between the side lobes is sulphur-yellow with six mauve keels.

Cattleya granulosa, var. **asperata**, Rchb. f. (*G. C.* 1886, v. 26, p. 681.) A fine variety with brownish sep. and pet. spotted with dark purple. Lip yellowish at base, light vivid purple with a broad white border in front, rough on the surface.

—— Var. **Schofieldiana**, Veitch. (*Veitch Man. Cattl. and Lælia*, p. 36.) Syn. *C. Schofieldiana*, Rchb. f.

Cattleya Harrisii, Rchb. f. (*G. C.* 1887, v. 1, p. 104, *Veitch Man. Cattl. and Lælia*, p. 91.) Garden hybrid.

Cattleya Kimballiana, Linden and Rodigas. (*L.* v. 2, p. 85, pl. 89; *G. C.* 1887, v. 2, p. 108.) A fine handsome species with large fl., the lanceolate acute sep., and very broad elliptic wavy pet. of a delicate rosy white, the tube of the lip is white outside with some yellow near the front margins, the inside is yellow with orange lines, and the wavy front lobe is rich purple on the front part. Venezuela.

Cattleya labiata. The following are now given as varieties of this in *Veitch. Man. Cattl. and Lælia* at the page given after the name of each var.

—— Var. **alba**, Veitch, p. 19. Syn. *C. alba.*

—— Var. **autumnalis**, Linden. (*L.* v. 3, p. 35, pl. 112.) A fine autumn-flowering form with bright rose-purple fl., having a white blotch on each side of the mouth of the tube of the lip, and a large wedge-shaped dark purple blotch on the front part.

Cattleya labiata—*cont.*

—— Var. **brilliantissima**, Veitch, p. 19. Syn. *C. brilliantissima*, of gardens.

—— Var. **chocoensis**, Veitch, p. 25. Syn. *C. chocoensis*, Lind. and André.

—— Var. **crocata**, Veitch, p. 17. Syn. *C. crocata*, Rchb. f.

—— Var. **delicata**, Veitch, p. 25. Syn. *C. Warscewiczii* var. *delicata*, Moore and *C. Rollissonii*, Moore.

—— Var. **Dowiana**, Veitch, p. 16. Syn. *C. Dowiana*, Batem.

—— Var. **Eldorado**, Veitch, p. 17. Syn. *C. Eldorado*, Linden.

—— Var. **ornata**, Veitch, p. 17. Syn. *C. Eldorado*, var. *ornata*, Rchb. f.

—— Var. **regina**, Veitch, p. 19. Syn. *C. speciosissima* var. *reginæ*, Rchb. f.

—— Var. **splendens**, Veitch, p. 17. Syn. *C. Eldorado* var. *splendens*, Linden.

—— Var. **virginalis**, Veitch, p. 17 and 25. Syn. *C. virginalis*, Lind. and André, and *C. Wallisii*, Linden.

—— Var. **Warneri**, Veitch, p. 27. Syn. *C. Warneri*, T. Moore.

—— Var. **Wilsoniana**, Rchb, f. (*G. C.* 1887, v. 2, p. 460.) A var. with amethyst coloured sep., pet., and front lobe of lip, which latter is marked and spotted with dark purple, and has on each side a dark purple area; at the base are some delicate lines on a pale ground, and in the centre are some oblique dark purple lines and a light yellow eye on each side.

Cattleya Lawrenceana, var. **oculata**, Veitch. (*Veitch. Man. Cattl. and Lælia*, p. 41.) A var. with the central area of the lip buff-yellow, and without a purple band.

—— Var. **rosea-superba**, Veitch. (*Veitch. Man. Cattl. and Lælia*, p. 41.) A robust var. with large delicate rosy-purple fl., striated with white, the sep. paler than the pet. and lip, which has a white disk.

Cattleya Loddigesii, var. **Harrisoniæ**, Veitch. (*Veitch Man. Cattl. and Lælia*, p. 42.) Syn. *C. Harrisonæ*, Lindl.

—— Var. **candida**, Veitch. (*Veitch Man. Cattl. and Lælia*, p. 42.) Has white fl. with a yellow disk to the lip.

—— Var. **maculata**, Veitch. (*Veitch Man. Cattl. and Lælia*, p. 42.) A var. having the fl. dotted with purple.

—— Var. **violacea**, Veitch. (*Veitch Man. Cattl. and Lælia*, p. 42. Has the fl. more deeply coloured than the typical form.

Cattleya maxima, var. **alba**, Veitch. (*Veitch Man. Cattl. and Lælia*, p. 44.) A form with white fl., having the usual yellow and purple markings on the lip.

Cattleya Measuresii, Rchb. f. (*G. C.* 1886, v. 26, p. 526; *Veitch Man. Cattl. and Lælia*, p. 86.) Garden hybrid.

Cattleya Mossiæ aurea grandiflora. (*G. C.* 1887, v. 2, p. 219.) Garden variety.

Cattleya porphyroglossa, var. **punctulata,** Rchb. f. (*G. C.* 1887, v. 2, p. 98.) A var. having the sep. and pet. marked with crimson spots.

Cattleya Schilleriana, var. **Amaliana,** Linden. (*L.* v. 2, p. 81, pl. 87; *G. C.* 1887, v. 2, p. 108.) A handsome form with a very large broad front lobe to the lip, which is densely veined with bright purple on a white ground, and has a yellow disk. Brazil.

Cattleya Skinneri, var. **oculata,** Veitch. (*Veitch. Man. Cattl. and Lælia*, p. 46.) A var. with a large maroon-purple blotch on the lip.

Cattleya sororia, Rchb. f. (*G. C.* 1887, v. 1, p. 40. *Veitch Man. Cattl. and Lælia*, p. 87; *W. O. A.* v. 7, pl. 307.) Something in the way of *C. Harrisoniæ* with greenish-yellow tips to the sep., the pet. are marked with numerous dark spots, the lip is white with light purple margins, and a few dark purple lines at the base, and some purple spots on the stalk. The front lobe of the lip is triangular, retuse emarginate, with some asperities on the disk. Brazil.

Cattleya speciosissima, var. **Buchananiana,** Williams and Moore. (*W. O. A.* v. 6, pl. 261; *G. C.* 1887, v. 1. p. 46.) This is a var. of **C. labiata,** with large fl. of a delicate rosy lilac, the front part of the lip being rich magenta, with a magenta stripe along the centre of the disk, and the mouth of the tube marked with light yellow. Venezuela.

Cattleya suavior, Rchb. f. (*Veitch Man. Cattl. and Lælia*, p. 92.) Garden hybrid.

Cattleya Trianæ, var. **Hooleana,** Williams (*W. O. A.* v. 6, pl. 265.) A form of **C. labiata,** var. **Trianæ,** with the entire lip of rich magenta-purple, marked with two curved clavate orange-yellow spots in the throat. New Granada.

Cattleya Schroederæ, Rchb. f. (*G. C.* 1887, v. 1, p. 512.) A fine form of **C. labiata,** var. **Trianæ,** nicely scented, with crisped pet. and lip, the general colour being light purple, with an orange area on the lip.

Cattleya virginalis, Lind. and André. (*L.* v. 3. p. 13, pl. 101.) A large white-flowered sp., with the disk and tube of the lip yellow. The sep. are lanceolate acute; pet. broad, elliptic obtuse; lip tubular, entire with a frilled front lobe.

Cattleya Walkeriana. The following are now placed as varieties of this species by Mr. Veitch in his *Manual of Cattleya and Lælia*, p. 50.

—— Var. **dolosa,** Veitch. Syn. *C. dolosa*, Rchb. f.

—— Var. **nobilior,** Veitch. Syn. *C. nobilior*, Rchb. f.

—— Var. **Schroederiana,** Veitch. Syn. *C. Schroederiana*, Rechb. f.

Cattleya Zenobia, Rolfe. (*G. C.* 1887, v. 2, p. 552.) Garden hybrid.

Cecropia dealbata, Williams. (*Williams' Cat.*, p. 21.) Artocarpeæ. S. A fine Snake-wood tree of ornamental character, with large, soft, pubescent, palmate l., light green above, glaucous beneath. New Granada.

Cerasus acida, var. **pyramidalis,** Carrière and André. (*R. H.* 1886, p. 460.) Rosaceæ. H. tree. A garden variety of the Montmorency Cherry, with erect branches, forming a pyramidal growth resembling that of the Lombardy Poplar.

Ceratotheca triloba, E. Mey. (*G. C.* 1887, v. 2, p. 492–3, f. 99.) Pedalineæ. G. or H. H. annual. An exceedingly beautiful herb of tall habit, with opposite stalked l., the lower ones large and 3-lobed, the uppermost smaller, cordate or ovate-lanceolate, lobed and toothed. Fl. large, deflexed, in long racemes, tubular with an oblique limb, the lower lobe longer than the rest, ovate, and not spreading as the rest are, the colour is of a delicate mauve, whitish inside, the lower lobe marked with purple lines. Natal.

Ceropegia Montiroæ, Hook. f. (*B. M.* t. 6927.) Asclepiadaceæ. S. succulent climber, remarkable for its singular fl. Stem rough. L. 1–2 in. long, lanceolate, bluntly pointed, wavy. Cymes 3-flowered, axillary. Fl. 2 in. long, trumpet-shaped, with a dome-like canopy over the mouth, the colour is white and green, spotted with purple-brown, and fringed with purple hairs: Delagoa Bay.

Chamæcerasus Alberti, Späth. (*R. H.* 1886, p. 547.) Caprifoliaceæ. H. shr. A species of **Lonicera** with slender branches, soft linear l., somewhat like those of the Rosemary, of a greyish-green, glaucous beneath, and rose-coloured fl.

Chamæcerasus alpigena, var. **nana,** Carrière. (*R. H.* 1887, p. 63.) Rosaceæ. H. shr. Garden variety of **Lonicera alpigena.**

Chrysanthemum Decaisneanum, N.E Br. Compositæ. H. late-flowering per. 1–1½ ft. high, similar to C. mar-

ginatum in appearance, with obovate pinnatifid l., and larger, radiate, pale yellow heads. Japan. Syn. *Pyrethrum Decaisneanum*, Maxim.

Chrysanthemum marginatum, N. E. Br. H. late-flowering per., with tomentose stems, cuneate-oblong l., pinnatifid in the upper third, tomentose beneath and on the edge, and rounded corymbs of small dark yellow heads. Japan. Syn. *Pyrethrum marginatum*, Miq.

Chrysanthemum multicaule, Desf. (*B. M.* t. 6930.) H. annual ½–1 ft. high, branching, with smooth, glaucous, l. and stems. L. fleshy, linear-spathulate, and coarsely pinnatifid, 1–3 in. long, ½–¾ in. broad, or smaller and trisect or pinnatisect with narrow segments. H. solitary on long peduncles, radiate, bright yellow 1½–2½ in. in diameter. Algeria.

Cirrhopetalum Lendyanum, Rchb. f. (*G. C.* 1887, v. 2, p. 71.) Orchideæ. A pretty little species, with pear-shaped, 4-angled, reddish bulbs, cuneate-oblong acute l., and wiry peduncle, bearing an umbel of small whitish fl., with a greenish-yellow hue. Upper sep. oblong acuminate, lateral sep. linear-acuminate, free, twice as long as upper sep. Pet. oblong acuminate, nearly as long as upper sep. Lip compressed, triangular as seen from the side, two-keeled. Syn. *Bulbophyllum Lendyanum*, Rchb. f.

Cirrhopetalum stragularium, Rchb. f. (*G. C.* 1887, v. 2, p. 186.) Allied to *C. Thouarsii*, with the upper sep. elliptic, cucullate, with a short apical bristle, purple at the apex and dotted with purple; lateral sep. connate, pale yellow blotched and dotted with purple; pet. bristly on the border, and warted towards the apex, yellowish, spotted with purple, and having brownish purple tips; lip curved with two diverging angles near the base, convolute, covered with purple-black spots. Syn. *Bulbophyllum stragularium*, Rchb. f.

Claviga Ernstii, Hook, f. (*B. M.* t. 6928.) Myrsineæ. S. shr., growing to 4–5 ft. high, but flowering when much smaller. Stem very robust. L. clustered at the ends of the branches, petiolate, 12–16 in. long, 4–6 in. broad, leathery, oblong or elliptic-oblong, acutish, dark green above, yellow-green beneath. Racemes numerous, axillary, many-flowered, drooping. Fl. ½ in. in diam., apricot-yellow. Caracas.

Clematis rhodochlora, André. (*R. H.* 1887, p. 449.) Ranunculaceæ. Garden variety.

Clerodendron Rumphianum, Bull. (*Bull Cat.*, p. 9.) Verbenaceæ. S. A handsome shr. with large, roundish-ovate, dark green l., and terminal panicles of long-tubed fl., which at first are flesh-coloured, deepening to red and crimson; stamens exserted, red. Java.

Coelogyne Hookeriana, var. **brachyglossa,** Rchb. f. (*G. C.*, 1887, v. 1, p. 833.) Orchideæ. A variety with pale rose and pet., and a more open white lip, sep. having the disk light yellow spotted with reddish-brown. Himalayas.

Coelogyne maculata, var. **virginea,** Rchb. f. (*G. C.*, 1887, v. 2, p. 682.) A var. with pale green bulbs, and the lip tinted with light sulphur, without spots.

Coelogyne Sanderiana, Rchb. f. (*G. C.* 1887, v. 1, p. 764.) A fine species with white fl., the front lobe of the lip being yellow and the side lobes marked with 3 brown stripes. Bulbs over 2 ins. long. L. a ft. long, 2½ ins. wide, petiole dilated at base. Raceme 5–6-flowered. Fl. as large as those of *C. speciosa*. Sunda Isles.

Colchicum Troodii, Kotschy. (*B. M.* 6901, *R. H.* 1887, p. 166.) Liliaceæ. H. An autumn-flowering species, the depressed-globose corm, producing numerous white fl. 1½ ins. in diam., with narrow oblong segments. L. appearing in spring, 6–12 ins. long, ⅔–1 in. broad, strap-shaped, obtuse, dark green. Cyprus.

Corypha decora, Bull. (*Bull Cat.* p. 10.) Palmæ. S. An ornamental palm with fan-shaped l., divided almost to the base into linear segments ½ in. broad. Petioles armed with hooked prickles. Queensland.

Costus mosaicus, Bull. (*Bull Cat.* p. 10.) Scitamineæ. S. per. with variegated foliage. L. obliquely lanceolate, 3–4 ins. long, the centre dark green, the rest tessellated with silvery-grey. Congo.

Crassula rhomboidea, N. E. Br. (*G. C.* 1886, v. 26, p. 712.) Crassulaceæ. G. succulent of botanical interest, 2–3 ins. high, glabrous. L. rhomboidal, hunched above the middle, subacute, ¾–1 in. long, ½–3 in. broad, ¼–⅓ in. thick, glaucous, punctate-dotted. Fl. in short-stalked, terminal, few-flowered cymes, pale flesh-coloured. Transvaal.

Cratægus pinnatifida, var. **major,** N. E. Br. (*G. C.* 1886, v. 26, p. 621, f. 121.) Rosaceæ. H. tree. An ornamental form, with long-stalked, lobed, and pinnatifid l., and corymbs of large-sized white fl., succeeded by large pear-shaped fr., ¾-in. in diam., of a fine bright red. North China.

Crinum crassipes, Baker. (*G. C.* 1887, v. 2, p. 126.) Amaryllidaceæ. S. Bulb very large, conical. L. lorate, suberect, 4 ins. broad, bright green. Scape compressed, less than 1 ft. long, ¾ in. thick.

Fl. 15–20 in. an umbel, tube 3 ins. long, limb suberect, 2½ ins. long, the segments ½ in. broad, white, with a pink keel. Stamens with claret-purple filaments.

Crinum longifolium, var. **Farinianum,** Baker. (*G. C.* 1887, v. 1, p 833.) S. Bulb narrow, with a long neck. L. 3–4 ft. long, 2 ins. broad, glaucous. Scape from the side of the bulb, 2 ft. long, bearing 5–6 fl. on pedicles 1–2 ins. long; fl.-tube 3½–4 ins. long, fl. about 3 ins. in diam., funnel-shaped, white with a pink median stripe on the segments when first expanded, afterwards fading to pink, and the segments closing together; the tube is curved and about 3½–4 ins. long. Kalahari Desert.

N.B.—Mr. Baker described the fl. as pink with permanently connivent segments, but he only saw faded flowers; the white colour of the fl. when first open only lasts for about a day. Kalahari Desert.

Crinum Massaiana, N. E. Br. A fine species, allied to *C. Kirkii*, with a very elongated bulb about 18 ins. long, and long broad l. The fl.-stem is about 2½ ft. high, and bears a large many-flowered umbel of large white fl., having a red stripe down the centre of each segment. Zanzibar. Syn. *Brunsvigia Massaiana*. Lind. and Rod. in *Ill. H.* v. 34, p. 55, pl. 19.

Crinum vanillodorum, Welw. (*Ill. H.* v. 33, p. 185, pl. 617.) S. bulb, a handsome species, with a long-necked bulb, lanceolate l. 16–20 ins. long, by 2–3 ins. broad, and a lateral scape overtopping the l., bearing an umbel of 5–6 long-tubed, white fl. with broad and rather spreading segments. Congo, Angola.

Croton Newmanii, Bull. (*Bull. Cat.*, pp. 10 and 6, with fig.) Euphorbiaceæ. S. A form of **Codiæum variegatum,** with lanceolate l., variegated with yellow and whitish on a bright green ground, the variegation forming a broad central stripe. Polynesia.

Cryptophoranthus maculatus, Rolfe. (*G. C.* 1887, v. 2, p. 693.) Orchideæ. *See* **Pleurothallis maculatus.**

Cypripedium album, Rchb. f. (*G. C.* 1887, v. 1, p. 512.) Orchideæ. Garden hybrid.

Cypripedium amandum, Rchb. f. (*G. C.* 1887, v. 1, p. 174; *Bull. Cat.*, p. 10.) Garden hybrid.

Cypripedium Amesianum, Williams. (*Williams' Cat.*, p. 22.) Garden hybrid.

Cypripedium concinnum, Bull. (*Bull Cat.*, p. 10.) Garden hybrid.

Cypripedium concolor, var. **tonkinense,** Linden. (*L.* v. 2, p. 61, pl. 77; *G. C.* 1887, v. 1, p. 486.) This is a two-flowered form with rather larger fl. Tonkin. Syn. *C. tonkinense*, Linden.

Cypripedium delicatulum, Rchb. f. (*G. C.* 1887, v. 2, p. 552.) Garden hybrid.

Cypripedium doliare, Rchb. f. (*G. C.* 1887, v. 1, p. 447.) Garden hybrid.

Cypripedium Hornianum, Rchb. f. (*G. C.* 1887, v. 2, p. 428.) Garden hybrid.

Cypripedium insigne, var. **Mooreanum,** Williams. (*Williams' Cat.*, p. 22.) Garden variety.

Cypripedium Laurenceanum, var. **coloratum.** Rchb. f. (*G. C.*, 1887, v. 2, p. 272.) A trifling form with a more acute upper sep., tinted with light mauve between the veins, and with numerous warts on the pet.

—— Var. **stenosemium,** Rchb. f. (*G. C.* 1887, v. 2, p. 38.) A slight variety with a narrower upper sep. than in the typical form.

Cypripedium lineolare, Rchb. f. (*G. C.* 1887, v. 1, p. 447.) Garden hybrid.

Cypripedium Measuresianum, Williams. (*Williams' Cat.*, p. 22; *W. O. A.* v. 7, pl. 304.) Garden hybrid.

Cypripedium obscurum, Rchb. f. (*G. C.* 1887, v. 1, p. 8.) Garden hybrid.

Cypripedium orbum, Rchb. f. (*G. C.* 1887, v. 2, p. 778.) Garden hybrid.

Cypripedium pleistochlorum, Rchb. f. (*G. C.* 1887, v. 2, p. 552.) Garden hybrid.

Cypripedium plunerum, Rchb. f. (*G. C.* 1887, v. 1, p. 40.) Garden hybrid.

Cypripedium præstans, Rchb. f. (*G. C.* 1886, v. 26, p. 776; and 1887, v. 2, p. 243, p. 813, p. 155, and p. 814; *Ill. H.* v. 34, pp. 35 and 73, pl. 26.) A fine species, in the way of *C. philippinense*, having similar l., and a several flowered hairy peduncle. Fl. large, sep. nearly equal, the lower one broadest, striped with dark brown, the 3 median nerves keeled outside. Pet. narrow, twisted, wavy at base, tapering towards apex, hairy on the margins at the base, yellowish with reddish brown nerves at the base, and dark brown spots on the margin. Lip similar to that of C. Stonei, with a very long basal part, yellowish. New Guinea.

Cypripedium regale, Bull. (*Bull Cat.* p. 10.) Garden hybrid.

Cypripedium Saundersianum, Rchb. f. (*G. C.* 1886, v. 26, p. 654.) Garden hybrid.

Cypripedium Schroderæ, var. **splendens,** Linden. (*L.* v. 2, p. 45, pl. 69.) Garden hybrid.

Cypripedium Tautzianum, Rchb. f. (*G. C.* 1886, v. 26, p. 681; *Gfl.* 1887, p. 286.) Garden hybrid.

Cyrtandra Pritchardii, Seem. (*Gfl.* 1887, p. 130.) Gesneraceæ. S. A glabrous shr. with petiolate, elliptic, obtusely-toothed l., acute at both ends, 5–6 in. long, by 2–2½ in. broad, and pedunculate, axillary, 3-flowered cymes of small white fl., succeeded by ovoid white berries. Fiji.

Cytisus filifer, Besson. (*R. H.* 1886, p. 547.) Leguminosæ. H. shr. Said to be a form of **Genista sibirica,** with numerous pale yellow fl.

Dasylirion quadrangulatum, Wats. (*Gfl.* 1887, p. 280, f. 75.) Liliaceæ. G. on S. Stem stout, about 3 ft. high, crowned with a dense tuft of slender quadrangular l., about 2 ft. long. Fl. stem about 5 ft. high, with a dense spike-like panicle of small fl. Texas.

Davallia ferruginea, Desv. (*G. C.* 1887, v. 1, p. 639.) Filices. S. A large sarmentose species, with decompound fronds, having small, sessile, crowded, cuneate ultimate segments. Madagascar.

Delphinium Zalil, Aitch & Hemsl. (*G. C.* 1887, v. 2, p. 558.) Ranunculaceæ. H. annual of attractive appearance, with branching stem, finely cut dark green l., and long racemes of pale yellow fl. Afghanistan.

Dendrobium aurantiacum, Rchb. f. (*G. C.* 1887, v. 2, p. 98.) Orchideæ. Allied to *D. clavatum,* but having long bracts and broader sep. and pet. Stems slender, a ft. or more long. L. linear, 2–3 in. long, ¼ in. broad. Racemes short, 1–3 flowered, fl. uniform orange. Sep. oblong, pet. broader, lip "hastate semi-ovate," rough inside, with some linear elevations at base. Assam.

Dendrobium bracteosum, Rchb. f. (*G. C.* 1886, v. 26, p. 809; *L.* v. 2, p. 55, pl. 74.) An interesting and attractive species allied to *D. cumulatum,* remarkable for the bracts being nearly as long as the fl., which are grouped in capitate masses, and are purple with yellow lips, marked with reddish on the front margins. Sep. triangular-keeled, the spur about ⅔ the length of the free parts of the lateral sep., rather blunt. Pet. narrower, oblong acute. Lip nearly spathulate, a little convex on the upper sides, much thicker at the base. New Guinea.

Dendrobium chlorostele, Rchb. f. (*G. C.* 1887, v. 1, p. 477.) Garden hybrid.

Dendrobium chrysodiscus, Rchb. f. (*G. C.* 1887, v. 1, p. 414.) Garden hybrid.

Dendrobium cybele, Rolfe. (*G. C.* 1887, v. 2, p. 778.) Garden hybrid.

Dendrobium Falconeri, var. **giganteum,** Williams. (*W. O. A.* v. 6, pl. 257.) A robust var. with large blush-white fl. tipped with rosy-purple on the sep. pet. and lip, the base of the lip with two large maroon-purple blotches bordered with orange-yellow. North India.

Dendrobium Friedricksianum, Rchb. f. (*G. C.* 1887, v. 2, p. 648.) Allied to *D. signatum.* Stems rather thick, furrowed, spotted with purple on the sheaths. Racemes few flowered. Fl. light yellow, the lip with a darker yellow centre marked with a dark purple blotch; in form the lip is oblong subacute, rough on the disk, with a clavate raised line at the base, which is tomentose at its apex. Siam.

Dendrobium Fytchianum, var. **rosea,** Berkeley. (*G. C.* 1887, v. 1, p. 209; *Williams Cat.,* p. 22.) A variety with rose-coloured sep. and pet., and the side lobes and base of front lobe of lip deep crimson-purple. Burmah.

Dendrobium hercoglossum, Rchb. f. (*G. C.* 1886, v. 25, p. 487.) A pretty species allied to *D. aduncum,* with slender stems having lateral racemes at the top. Fl. similar to those of *D. aduncum,* but the spur more oblique; sep. and pet. delicate mauve; lip white with a mauve-purple recurved apex, the basal part is cup-shaped, hairy inside, and separated from the front part by a transverse fringe of hairs. Malacca.

Dendrobium inauditum, Rchb. f. (*L.* v. 2, p. 39, pl. 66; *G. C.* 1886, v. 26, p. 552; and 1887, v. 1, p. 45.) A very singular species, with tufted, fusiform-ovate, green bulbs, that are narrowed at the apex into a slender brownish leaf stalk 3–4 in. long, bearing an elliptic obtuse l, from the base of which arise two fl., after the manner of a Pleurothallis. Pedicel, including the ovary, about 2 in. long. Sep. and pet. 1½ in. long, narrow linear-lanceolate, pale yellowish. Lip with square, obtuse-angled side lobes, and a lanceolate acuminate front lobe, pale ochreous spotted with brown. New Guinea.

Dendrobium Loddigesii, Rolfe. (*G. C.* 1887, v. 2, p. 155; *G. C.* 1887, v. 2, p. 786.) This is the plant incorrectly named *D. pulchellum* in gardens.

Dendrobium melanodiscus, Rchb. f. (*G. C.* 1887, v. 1, p. 414.) Garden hybrid.

Dendrobium nycteridoglossum, Rchb. f. (*G. C.* 1886, v. 26, p. 616.) A small-flowered species with the habit of *D. serra.* Fl. produced in fascicles on the upper and ultimately leafless part of the stem, green, striped, with very dark red on the sep. and pet., and with a dark green spot on the disk of the lip, which has broad triangular side lobes, and very short retuse central lobe. Papua.

Dendrobium polyphlebium, Rchb. f. (*G. C.* 1887, v. 1, p. 702; *W. O. A.* v. 7, pl. 229.) A pretty species, with the habit and fl. of *D. Pierardi,* but the sep. and pet. are broader, of a bright rosy colour; lip rounded, slightly fringed and hairy, the basal part pale, with three keels and numerous radiating purple veins, the disk rich purple, and the margin whitish or pale yellow. Burmah.

Var. **Emerici,** Rchb. f. (*G. C.* 1887, v. 2, p. 242.) A brightly coloured var. with a white mid-line outside the lateral sep., the dark blotch on the front of the lip is interrupted by an amethyst-coloured bar, and the front margin is white, changing to straw colour. Birma.

Dendrobium purpureum, var. **candidulum,** Rchb. f. (*G. C.* 1887, v. 2, p. 70; *L.* v. 3, p. 7, pl. 98.) A var. with white fl., tipped with green on the sep.

Dendrobium rutriferum, Rchb. f. *G. C.* 1887, v. 2, p. 746.) Stems slender furrowed. Fl. in short capitate racemes, rose-coloured, about the size of those of *D. secundum.* Sep. triangular obtuse. Pet. spathulate obtuse. Lip oblong-pandurate, with inflexed borders, saccate and denticulate at the apex, and having a transverse, emarginate, linear crest in front of the base. New Guinea.

Dendrobium Schneiderianum, Rchb. f. (*G. C.* 1887, v. 1, p. 209.) Garden hybrid.

Dendrobium splendidissimum, var. **grandiflorum,** Veitch. (*Veitch. Cat.,* p. 10.) Garden hybrid.

Dendrobium sulcatum, var. **polyantha,** Rolfe. (*G. C.* 1887, v. 1., p. 607.) This is merely the properly developed condition of the plant, the original description and figure given by Lindley being from a poor specimen.

Dendrobium trigonopus, Rchb. f. (*G. C.* 1887, v. 2, p. 682.) Bulbs fusiform, sulcate, 6–7 ins. long, 1–3 leaved. L. oblong acute, 3–4 ins. long, thin, hairy on the back, and when young on both sides. Fl., solitary (always ?), golden yellow; ovary, 3-angled; sep., oblong, acuminate keeled; pet. broader and shorter; lip with a rather long claw, and a broad toothletted limb, which has nearly square side lobes, the disk is marked with transverse red lines on each side, and the front lobe has a green central area. Birmah.

Dendrobium Vannerianum, Rchb. f. (*G. C.* 1887, v. 2, p. 72.) Garden hybrid.

Dimorphotheca fruticosa, D. C. (*G. C.* 1887, v. 2, p. 398.) Compositæ. H. H. per. or annual? with procumbent stems, obovate l., and pedunculate heads 1½ in. in diam., with a white ray, brownish beneath, and a yellow disk. Cape.

Diospyros aurantium, D. Bertii, D. elliptica, and **D. Sahuti,** var. **gallica,** André. (*R. H.* 1887, p. 349 with pl.) Ebenaceæ. Garden vars. of **D. Kaki.**

Diospyros Wiseneri, Carrière. (*R. H.* 1887, p. 83). H. shr. with elongate ovate l., shortly attenuated and rounded at the apex; Calyx lobes with a short central lobe. Fruit, egg shaped, obscurely ribbed. Japan. Probably a var. of **D. Kaki.**

Disa racemosa, L. f. (*G. C.* 1887, v. 2, p. 809.) Orchideæ. A beautiful terrestrial orchid with light green narrow-lanceolate l., and a lax, one-sided, raceme of pretty rose-purple fl. about 1½ in. in diam. The upper sep. is hooded with a short spur; the side sep. are elliptic-oblong apiculate; pet. small, oblong, with an inflexed point; lip small, lanceolate. Cape.

Disporum Leschenaultianum, Don. (*B. M.* t. 6935.) Liliaceæ. G. per. herb, with a creeping rootstock; erect dichotomously branched stem; shortly stalked, elliptic, acute, 5-nerved l.; and axillary clusters of from 2–5, pedicellate, campanulate, white fl., followed by globose black berries. S. India and Ceylon.

Dracæna sepiaria, Dammann. (*Gfl.* 1887, p. 130.) Liliceæ. S. per. of ornamental character, with upright, small, dark green l. in tufts, and large panicles of pure white fl., followed by yellow berries, which remain on the plant for a long time. Fiji.

Epidendrum atropurpurem, var. **Randi,** Linden and Rodigas. (*L.* v. 2, p. 5, pl. 49.) Orchideæ. A var. with ovate-conical bulbs, strap-shaped acute l., 6–8 in. long, ½ in. broad, and racemes of fl. 1¾ in. in diam. Sep. and pet. oblanceolate, brown, edged with yellowish. Lip white, striate with red on the side lobes, and with a large radiating red

blotch on the broad, transversely oblong front lobe. Amazons. Syn. *E. Randiananum*, Barb. Rodriguez.

Epidendrum Kienastii, Rchb. f. (*G. C.* 1887, s. 2, p. 126.) A handsome species with 2 cuneate-oblong acute l., 6 in. long, ½–1 in. broad, and a several flowered raceme of rose-coloured fl., marked with purple veins on the sep. and pet., and with purple raised lines on the white lip. Sep. lanceolate, the dorsal one broader at apex. Pet. cuneate-oblong acute. Lip with the side-lobes cuneate-oblong, 2-toothed, and the mid lobe cuneate-oblong acute, wavy; crest forcipate, 2-shanked, with 5 elevated lines.

Epidendrum Mathewsii, Rchb. f. (*G. C.* 1886, v. 26, p. 458, and 1887, v. 2, p. 431.) One of the *Nanodes* group, with short procumbent stems, and distichous, rigid, fleshy l. Sep. and pet. small, nearly transparent, stained with purplish outside, lateral sep. connate half-way up. Lip orbicular, bifid at apex, convex above, concave beneath, deep shining dull blood-purple, completely concealing the lateral sep.

Epidendrum Stamfordianum, var. **Wallacei,** Rchb. f. (*G. C.* 1887, v. 1, p. 543.) A variety having the front lobe of the lip obcordate, entire, and very narrow. Mountains south of Bogota.

Epidendrum vitellinum, var. **giganteum,** Warner. (*W. S. O. P.* ser. 3, pl. 27.) A syn. of **E. vitellinum** var. **majus.**

Eria Fordii, Rolfe. (*G. C.* 1886, v. 26, p. 584.) Orchideæ. Closely allied to E. rosea, but differing in the larger and differently coloured fl. Bulbs ovoid, sub-compressed, smooth. L. linear-lanceolate acute, 8–9 in. long, 1½–1¾ in. broad, leathery. Racemes terminal, 2–3-flowered. Ovary acutely 3-keeled. Sep. an inch long, lanceolate acute, acutely keeled down the back, light yellowish green. Pet. ovate-lanceolate, subacute, coloured like the pet. Lip narrow oblong, obtuse, apiculate, with small rounded lateral lobes, and 3 blunt keels on lower half, deep dull yellow with dull crimson veins. Hong Kong.

Eria muscicola, Lindl. *G. C.* 1887, v. 2, p. 522.) An insignificant species, with minute bulbs, l. about ½ in. long, and racemes of very small yellowish-green fl. Ceylon.

Erythea armata, Wats. (*Gfl.* 1887, p. 279, f. 74, where it is wrongly named *E. aculeata*.) Palmæ. S. Palm with large, fan-shaped, palmatisect, glaucous l., armed with spines on the margins of the petioles; and tomentose, paniculate, pendent spadices. California.

Escallonia revoluta, Pers. (*B. M.* t. 6949.) Saxifragaceæ. H. shr., autumn-flowering, much branched and softly pubescent, very ornamental. L. obovate, acute, toothed, with recurved margins, 1–1½ in. long. Racemes panicled at the ends of the branches. Fl. white, ½ in. long. Chili.

Esmeralda Clarkei, Rchb. f. (*G. C.* 1886, v. 25, p. 552. *See* **Vanda Clarkei.**

Eucomis pallidiflora, Baker. (*G. C.* 1887, v. 2, p. 154.) Liliaceæ. G. bulb. A fine bold species with oblanceolate bright green l., 2 ft. or more long, by 4–5 in. broad, and a fl.-stem 3 ft. high, with a long raceme of greenish-white fl., 1¼ in. in diam.

Eurya vitiensis, A. Gr. (*Gfl.* 1887, p. 130.) Ternstroemiaceæ. S. tree with elliptic-lanceolate, or oblong serrulate l., acuminate at both ends, of a shining green, and small axillary unisexual fl., the males fascicled, the females usually in pairs. Fiji.

Euonymus japonicus, vars. **Chouveti** and **columnaris,** Carrière. (*R. H.*, 1887, p. 89.) Celastrineæ. H. shr. Garden varieties.

Ficus Cavroni, Carrière. (*R. H.* 1887, p. 329.) Urticaceæ. S. shr. with large shortly petiolate, cuneate-obvate, obtuse l., growing to 18 ins. long by 9 ins. broad, dark green with yellowish-white midrib above, rusty beneath. Brazil.

Fourcroya Roezlii, André. (*R. H.* 1887, p. 353, f. 71.) Amaryllidaceæ. G. L. 4½ ft. long, 4 ins. broad in the middle, narrowed towards the base, lanceolate acuminate. Fl.-stem 10–12 ft. high, clothed with long sheathing bracts on the unbranched part, paniculate above, flowering branches puberulous, fl. in clusters of 3–4, pale yellowish, 1¾ ins. in diam. Mexico. Syn. *Roezlia regia* of gardens.

Fraxinus aucubæfolia, var. **nova,** Carrière. (*R. H.* 1887, p. 63.) Oleaceæ. H. tree. Garden variety.

Fraxinus turkestanica, Carrière. (*R. H.*, 1887, p. 63.) H. tree. A remarkable species, with pinnate, dark green l., leaflets five, cuspidate coarsely toothed. Turkestan.

Fritillaria armena, var. **fusco-lutea,** Baker. (*G. C.* 1887, v. 1, p. 639.) Liliaceæ. H. bulb. A form having the fl. bright yellow inside and tinged with coppery-brown outside. Smyrna.

Fritillaria Raddeana, Rgl. (*Gfl.* 1887, p. 583.) H. bulb, similar to F. imperialis, but distinguished by its rather

dwarfer habit, recurved-spreading floral l., and pedicels longer than the greenish-yellow fl. Central Asia.

Gahnia aspera. (*Gfl.*, 1887, p. 130.) Cyperaceæ. S. The plant described under the above name may not be the true *G. aspera*. Spr. It is said to be an ornamental plant of Arundo-like habit, with bright green, channelled, wavy, lanceolate l., and a terminal inflorescence of whitish-yellow spikelets and red-yellow fruit. Fiji.

Galanthus caucasicus, Baker. (*G. C.* 1887, v. 1, p. 313.) Amaryllidaceæ. A large-flowered species, with glaucous truncate l. ½ in. broad, very glaucous peduncles, and fl. ¾–1 in. long, white, with the inner segments streaked with green inside, and marked outside with a green horseshoe-shaped spot around the deep notch. Caucasus.

Galeandra Descagnolleana, Rchb. f. (*Ill. H.* v. 34, p. 63, pl. 22.) Orchideæ. Allied to *G. dives*, with rather slender fusiform stems, narrow lanceolate acuminate l., and terminal few-flowered racemes of moderate-sized fl. Sep. and pet. lanceolate acute, ochreous-brown. Lip pale sulphur-white, with a purple blotch in front. Para.

Galeandra devoniana, var. **Delphina.** (*L.* v. 2, p. 67, pl. 80; *G. C.* 1887, v. 1, p. 486.) A distinct var. more slender in all its parts than the type. Sep. and pet. lanceolate acute, reddish brown with yellowish margins. Lip large, white, veined with purple. Venezuela.

Galeandra flaveola, Rchb. f. (*G. C.* 1887, v. 1, p. 512, and v. 2, p. 103; *L.* v. 2, p. 87, pl. 90.) A strong-growing species, with stems a span high, rather thick at the base, marked on the whitish sheaths with dark spots. L. cuneate, linear-lanceolate, acuminate, ½–¾ in. broad. Raceme several flowered, sep. and pet. lanceolate, acuminate, yellowish-brown. Lip yellow, with very small hyaline purple dots. Anther with a blackish anchor-like terminal process. Venezuela.

Geranium tuberosum, var. **Charlesii,** Ait. and Hemsl. (*B. M.* t. 6910; *R. H.* 1887, p. 167.) Geraniaceæ. H. per., differing from the type in having a series of globose superimposed tubers, and the segments of the l. less lobed at their sides. Afghanistan.

Gladiolus watsonioides, Baker. (*B. M.* t. 5919; *R. H.* 1887, p. 192.) Iridaceæ. G. Allied to *G. Watsonius*, with linear l. 1–1½ ft. long, ½ in. broad, and a long lax spike of showy bright scarlet-red fl. 2 in. in diam. Mount Kilimanjaro.

Globba alba, Morren. (*B. H.* v. 35, p. 286, pl. 20.) Scitamineæ. S. This is a synonym of **G. albobracteata,** N. E. Br.

Glyptostrobus columnaris, Carrière. (*R. H.* 1881, p. 528.) Coniferæ. H. tree. Garden variety. Seems to be the same as **Taxodium distichum** var. **fastigiatum.**

Goodyera Rodigasiana, Linden. (*Ill. H.* v. 33, p. 175, pl. 616; *G. C.* 1886. v. 26, p. 779.) Orchideæ. S. terrestrial orchid, of dwarf robust habit, with thick, ovate, acute, velvetty green l., with a whitish-green central stripe. Fl. unknown. New Guinea.

Gongora flaveola, Rchb. f. (*G. C.* 1886, v. 26, p. 456.) Orchideæ. Allied to *G. gratulabunda*, with an angulate peduncle bearing a rich raceme of distant fl. of a light ochre-yellow spotted with brown, the lip with a sigmoid claw, and having a median arista and very small basilar horns to the hypochile (middle part of lip).

Gonioscypha eucomoides, Baker. (*G. C.* 1886, v. 26, p. 744.) Liliaceæ. S. per. of striking appearance, with a short fleshy rootstock and a rosette of petiolate, elliptic, acute l., a ft. long by 4–5½ in. long., scape bearing a dense spike of dull green fl., surmounted by a crown of fine subulate bracts, similar bracts being mixed with the fl. Bhotan.

Habenaria militaris, Rchb. f. (*G. C.* 1886, v. 26, p. 518; *W. O. A.* v. 6, pl. 281.) Orchideæ. S. terrestrial orchid, a foot or more in height, with linear acute l., 8–9 in. long, ½ in. broad, and a lax raceme of moderate-sized fl., with green sep. and pet. and a scarlet lip. The dorsal sep. has the pet. strongly adherent to it, forming a cucullate-navicular helmet. The lateral sep. are oblong acute, reflexed and revolute. Lip with spreading oblong-dolabriform side lobes, and a bifid front lobe with divergent triangular lobes. Cochin China.

Hæmanthus abyssinicus, Herb. (*Bull Cat.*, p. 10.) Amaryllidaceæ. A fine S. bulb, with ovate-lanceolate wavy l., and large umbels of rich salmon-pink fl. Abyssinia.

Hebenstretia tenuifolia, Schrad. (*G. C.* 1887, v. 2, p. 398, under *Dimorphotheca fruticosa.*) Selagineæ. H. annual, a ft. or more high with linear, entire or slightly toothed l., and long spikes of small white fl. marked with different shades of orange in the throat. S. Africa.

Hedysarum microcalyx, Baker. (*B. M.* t. 6931.) Leguminosæ. H. An ornamental leafy shr. nearly glabrous. L. pinnate, 6–12 in. long, with 17–21 oblong,

obtuse leaflets. Racemes 6–10 in. long, on very long peduncles, many flowered, fl. ¾ in. long bright purple. N W. Himalaya.

Helicophyllum Alberti, Rgl. (*B. M.* t. 6969; *G. C.* 1887, v. 2, p. 754.) Araceæ. H. per. An Arum-like plant, with hastate l., having two long linear basal lobes with an occasional side lobe, standing erect in front of the blade. Peduncle very short. Spathe 6 in. long, oblong, acute, the tube inside and out, and the back of the limb pale green, inside the limb is rich brown-purple. Central Asia.

Helicteres isora, L. (*G. C.* 1887, v. 2, p. 366.) Sterculiaceæ. S. shr. with large, roundish, crenate-dentate, cuspidate l., somewhat unequally cordate at the base, tomentose beneath, and small axillary clusters of deep red fl. Fr. twisted. India.

Heliophila scandens, Harv. (*G. C.* 1887, v. 1, p. 252.) Cruciferæ. G. An interesting climbing crucifer, with slender twining stems, lanceolate l., and racemes of large white fl. sometimes tinted with rosy. Natal.

Heloniopsis umbellata. (*G. C.* 1887, v. 1, p. 711.) The name *H. umbellata* is a mistake for **H. japonica.** Liliaceæ. H. per. of interesting character, with a rosette of lanceolate light green l., brownish towards the tips, and a few-flowered raceme of rose-coloured fl., having narrow free segments. Japan.

Hemipilia calophylla, Par. and Rchb. f. (*B. M.* t. 6920.) Orchideæ. S. terrestrial orchid, with a solitary oblong or elliptic, acute l., of a dark green, beautifully mottled with purple-brown, and a lax raceme of moderate-sized fl. Sep. ovate, acute, white, with green mid line. Pet. smaller, white. Lip oblong, slightly lobed, ⅓ in. long, rich purple. Tenasserim.

Heuchera sanguinea, Engelm. (*B. M.* t. 6929.) Saxifragaceæ. H. per. herb, the most beautiful of the genus. L. on long hairy petioles, cordate-orbicular, shortly lobed, and coarsely crenate. Fl.-stem 12–18 in. high, with a paniculate inflorescence of drooping, bright crimson, campanulate fl. ⅓ in. in diameter. New Mexico and Arizona.

Hexisea bidentata, Lindl. (*G. C.* 1887, v. 2, p. 431.) Orchideæ. A pretty little orchid, with jointed stems, constricted at the nodes, the joints 1–1½ in. long. L. linear-oblong, not longer than the joints. Fl. in short racemes, arising from the nodes, bright scarlet, about ½ in. in diameter; sep. and pet. linear acute, lip narrow, obovate-oblong. Panama, Colombia.

Hibiscus cisplatanus, St. Hil. (*G. C.* 1887, v. 2, p. 366.) Malvaceæ. G. shr. with ovate acuminate l., with a tendency to become 3-lobed, and pale rosy-lilac fl. 2½ in. in diameter, with a campanulate calyx surrounded by numerous linear bracts. Brazil.

Hibiscus coccineus, Walt. (*G. C.* 1887, v. 2, p. 366.) This is the same as *H. speciosus* Ait., being the oldest name for that plant.

Hillebrandia sandwicensis, Oliver. (*B. M.* t. 6953; *G. C.* 1887, v. 1, p. 804; and v. 2, p. 341.) Begoniaceæ. S. herb of interesting character, with the habit and appearance of a Begonia. L. large, roundish, many lobed, deeply cordate at base, serrate, hairy, dark green. Peduncles 6–12 in. long, forked at the top, bearing compact cymes of white fl. ¾ in. in diameter, with 5 sep. and 5 small spathulate pet. Sandwich Islands.

Hyacinthus lineatus, Steud. (*Gfl.* 1887, p. 446, f. 114.) Liliaceæ. H. spring-flowering bulb, with two oblong-lanceolate, acute l., 2–2½ in. long, ⅓–½ in. broad, and a scape 2–4 in. high, with a short raceme of ascending, small, campanulate blue fl. Asia Minor.

Hydrosme Leopoldiana, Mast. (*G. C.* 1887, v. 1, p. 642, and p. 644–45. f. 122–123; *Ill. H.* v. 34, p. 65, pl. 23.) Araceæ. S. tuberous-rooted aroid with a solitary l., having a petiole 2 ft. high, green dotted with purple at the base, and a horizontally spreading 3-branched blade, the branches being 2–3 times pinnatised with narrow lanceolate acuminate segments. Spathe vase-shaped at the base, prolonged into a broadly lanceolate wavy limb, velvetty purple-brown. Spadix 2 ft. long, cylindric, tapering, only the basal 3–4 in. bearing flowers, the rest naked and smooth. Congo.

Ilex camelliæfolia, Carrière. (*R. H.* 1887, p. 234.) Ilicineæ. H. shr. A garden var. of the common Holly.

Ilex Fischeri, of gardens. (*R. H.* 1887, p. 53.) A garden var. of the common Holly.

Impatiens comorensis, Baker. (*Ill. H.* v. 34, p. 62; *R. H.* 1887, p. 434.) Geraniaceæ. S. herb. A pretty balsam of vigorous growth, with elliptic-lanceolate, acute, crenate l., and large bright carmine fl., having a bifid white spur. Comoro Islands.

Ipomœa Robertsii, Hook. f. (*B. M.* t. 6952.) Convolvulaceæ. S. A beautiful twiner, softly pubescent except the fl. L. petiolate, cordate acute, 3–4 in. long, the hairs more or less stellate on both sides, with some scales on the upper surface. Fl. solitary pedunculate, 3 in. in diam., white, striate with pink, and marked with five rosy-purple rays. Queensland.

Iris Biliotti, Foster. (*G. C.* 1887, v. 1, p. 738.) Iridaceæ. H. A handsome, sweet-scented species, resembling *I. germanica* in habit. Fl.-stem 2½–3 ft. high. Falls 3½ in. long, 1½ in. broad, cuneate-spathulate, reddish-purple, with fine blackish veins, bearded. Standards 3½ in. long, 2 in. broad, connivent, blue-purple with fine blue veins. Styles obovate, white, with triangular reddish-purple crests. Province of Siwas, Asia Minor.

Iris Boissieri, Henriquez. (*G. C.* 1887, v. 2, p. 38.) H. A handsome bulbous species, closely allied to *I. filifolia*, but differing in having a distinct tube above the ovary, broader and more obovate standards, and a long narrow claw to the outer segments, which are distinctly bearded. Fl. purple. Portugal.

Iris Duthieii, Foster. *G. C.* 1887, v. 1, p. 611.) H. Rhizome knotty and gnarled. L. appearing after the fl., five or six to a tuft, 2 ft. long, ½ in. broad, yellowish green. Fl. solitary sessile; tube 3 in. or more long; falls nearly horizontal, lanceolate, bearded, above red-lilac with darker veins and blotches, beneath greenish yellow with the veins and blotches showing through; standards connivent, 1¼ in. long, oblong-ovate, paler red-lilac with dark veins. Styles light red-lilac with triangular crenate crests. Kumaon.

Iris germanica, var. **Siwas,** Foster. (*G. C.* 1887, v. 1, p. 739.) A variety with dark indigo-purple falls having light blue-purple claws, and dark blue-purple standards. Fr. very short, not much longer than broad. Province of Siwas, Asia Minor.

Iris Hookeriana, Foster. (*G. C.* 1887, v. 1, p. 611.) H. Rhizome somewhat fleshy. L. 1 ft. long, ¾–1 in. broad, yellowish-green, appearing with the fl. Scape about 5 in. long, 2-flowered. Fl.-tube ½–⅓ in. long; falls obovate-lanceolate, 1¾ in. long. by ⅞ in. broad, reflexed, densely bearded, blue-purple with darker blotches above, green with purple borders beneath; standards narrow obovate, ¾ in. long, ½ in. broad, blue-purple. Styles reddish-purple, very concave, with triangular, serrate, revolute crests. Lahul.

Iris Kingiana, Foster. (*G. C.* 1887, v. 1, p. 611; and v. 2, p. 341; *B. M.* t. 6957.) H. Rhizome knotty. L. 2 ft. long, ½ in. broad, yellowish green, appearing along with the solitary sessile fl. Tube 2½ in. long; falls lanceolate-ovate, 1½ in. by ⅝ in., reflexed, bearded, purple with deep purple spots above, greenish white beneath, with the spots showing through; standards erect, oblong-ovate, ¾ in. long, nearly ½ in. broad, purple. Styles purple with paler margins, crests obtusely triangular, reflexed, serrated and darker purple on the edge. Garwhal.

Iris lineata, Foster. (*Gfl.* 1887, p. 201, t. 1244, f. 1–6; *G. C.* 1887, v. 1, p. 679.) H. A small species, growing to about 1 ft. high, with a creeping rhizome producing bulbs at intervals, and erect, narrow, acute l., as long as the one-flowered scape. Fl. with lanceolate acute segments, greenish-yellow, veined with dull red-purple, the falls bearded with bluish-purple hairs and recurved, the standards erect, bearded with brownish-purple. Caucasus.

Iris lupina, Foster. (*G. C.* 1887, v. 1, p. 738.) H. Rhizome fleshy, creeping. L. 9 ins. or more long, ½ in. broad, light green. Peduncle 6 in. high, 1-flowered. Fl.-tube about 2 in. long; falls 3 in. long by 1¾ in. broad, broadly lanceolate, reflexed, serrate, bearded, greenish-yellow, with brownish-red veins towards the margins. Standards, 3¾ in. long, 2½ in. broad, elliptic, connivent, crenate, bearded, coloured like the falls. Styles much recurved, with rounded crests, yellow with brownish-red veins and dots. Kharput.

Iris Sari, var. **lurida,** Boiss. (*B. M.* t. 6960.) H. A fine Iris, with a short oblique rhizome, bearing about six, falcate glaucescent l. Peduncle 1-flowered. Fl. large; falls spotted with purple-brown on a pale ground, with a large blackish blotch at the base; standards large, roundish, violet-purple, veined and spotted with darker. Asia Minor.

Iris vaga, Foster. (*Gfl.* 1887, p. 201, t. 1244, f. 7.) H. Bulbs stoloniferous. L. a ft. long, nearly 1 in. broad. Scape, 2 ft. high, 3-flowered. Falls obovate? yellowish, with purple veins and margin, bearded with bluish-white. Standards broadly lanceolate, acute, erect, dull purple, with the veins, margin, and apex fuscous, bearded with whitish-yellow. Turkestan.

Karatas acanthocrater, Baker. (*B. M.* t. 6904.) Bromeliaceæ. Syn. *Nidularium acanthocrater.* Morren.

Kniphofia Kirkii, Baker. (*G. C.* 1887, v. 2, p. 712.) Liliaceæ. H.? per. much in the way of K. aloides, with green, acutely keeled l. 5–6 ft. long, 1½–2 in. broad at base, scabrous on the edge and keel. Peduncle 4 ft. high, with two large bract-leaves. Raceme dense. Bracts firm and green, concave and half twisted to one side. Fl. 1¼–

1⅓ ins. long, reddish-orange, gradually narrowed towards the base. South-east Trop. Africa.

Kniphofia pallidiflora, Baker. (*G. C.* 1887, v. 2, p. 396; *R. H.* 1887, p. 166) G. A distinct, small-flowered species, 1–2 ft. high, with linear semiterete l., 6–12 ins. long by 1 line broad, and a raceme of somewhat funnel-shaped white fl. 4½ lines long. Madagascar.

Laburnum caramanicum, Bth. Leguminosæ. H. shr., having the general aspect of Cytisus purpureus. L. petiolate, digitately trifoliolate, the leaflets obovate ¼–¾ in. long. Fl. bright yellow, about ½ in. in expanse, disposed in terminal paniculate racemes. Greece. Syn. *Podocytisus caramanicus,* Boiss.

Lachenalia aureoxreflexa, Baker. (*G. C.* 1887, v. 1, p. 576.) Liliaceæ. Garden hybrid.

Lælia anceps, var. **Schroederæ,** Rchb. f. (*G. C.* 1887, v. 1, p. 72.) Orchideæ A fine variety, having the sep. whitish-rose; the pet. rose with purple tips; and the lip with a brown disk, yellow side areas, warm purple borders to the side lobes, and a very dark blackish-purple front lobe.

—— Var. **Stella,** Crawshay. (*G. C.* 1887, v. 1, pp. 152 and 280, f. 58, and p. 312.) This may be described as a large-flowered form of the var. **Williamsii,** with a yellow throat to the lip marked with carmine lines, the rest of the fl. being pure white.

—— Var. **virginalis.** (*G. C.* 1887, v. 1, p. 11.) Orchideæ. A beautiful pure white-flowered variety, marked only on the disk and crests of the lip with pale sulphur-yellow.

Lælia autumnalis, var. **venusta,** Backhouse. (*Veitch Man. Cattl. and Lælia,* p. 62.) A large-flowered var., with fl. of a nearly uniform rosy-mauve.

—— Var. **xanthotropis,** Rchb. f. (*R.* v. 1, p. 21, t. 10; *Veitch Man. Cattl. and Lælia,* p. 62.) A pretty var. with shorter and smaller, rigid, leathery l., and broader pet. than in the type. The fl. are in drooping racemes and of a delicate rosy purple, with the tips of the sep. and pet. and front lobe of lip darker purple, the keels are yellow. Mexico.

Lælia cinnabarina, var. **crispilabia,** Veitch. (*Veitch Man. Cattl. and Lælia,* p. 63.) Syn. *L. crispilabia,* Rich.

Lælia Dominyana, var. **rosea,** Veitch. (*Veitch Man. Cattl. and Lælia,* p. 95.) Garden hybrid.

Lælia elegans. Those following, without a given reference, are now referred as vars. of this in *Veitch Man. Cattl. and Lælia,* pp. 67 and 68.

Lælia elegans—*cont.*

—— Var. **gigantea,** Veitch. Syn. *L. gigantea,* Warner.

—— Var. **Houtteana,** Rchb. f. (*L.*, v. 2, p. 49, pl. 71.) A handsome var. with rich rose-purple fl., the side lobes of the lip being whitish. Sep. lanceolate acute with recurved tips. Pet. twice as broad as the sep. rhomboid, obtuse. Santa Catharina, Brazil.

—— Var. **incantans.** Rchb. f. (*G. C.* 1887, v. 2, p. 333.) A handsome large-flowered var., with dark nankeen sep. and pet. suffused with light purple at the edges, and the lip with the front lobe and tips of the side lobes rich dark purple, the disk being reddish and the rest white, partly suffused with pale yellow.

—— Var. **Measuresiana,** Rchb. f. (*G. C.* 1887, v. 1, p. 209.) A fine variety with sulphur-coloured sep. and pet.; the sep. washed and spotted outside with light brown-purple; pet. bordered with purple on the apical part. Lip with the front lobe dark purple, disk purple, side areas white, and apex of side lobes purple.

—— Var. **Schilleriana,** Veitch. Syns. *L. Schilleriana,* Rchb. f., *L. Warneri.* Warner.

—— Var. **Stelzneriana,** Veitch. Syn. *L. Stelzneriana,* Rchb. f.

—— Var. **Turneri,** Veitch. Syn. *L. Turneri,* Warner.

Lælia euspathæ, Rchb. f. (*R.* v. 1, p. 17, t. 8; *Veitch Man. Cattl. and Lælia,* p. 88.) A fine species allied to *L. purpurata* and *L. elegans,* with stout clavate bulbs a ft. high, having one thick oblong emarginate l., 9–11 ins. long, by about 2½ ins. broad. Spathes large, 4–5 ins. long. Fl. large, delicate rosy-white on the lanceolate sep. and pet. The obscurely three-lobed lip is pale yellow in the tube and rich dark purple on the front part. Brazil.

Lælia exoniensis, Veitch. (*Veitch Man. Cattl. and Lælia* p. 95.) Syn. *Cattleya exoniensis.*

Lælia felix, Veitch. (*Veitch Man. Cattl. and Lælia,* p. 96.) Syn. *Cattleya felix,* Rchb. f.

Lælia irrorata, var. **Gaskelliana,** Rchb. f. (*G. C.,* 1887, v. 2, p. 520.) A var. with white lilac sep. and pet., and a dark purple front lobe to the lip, marked with darker purple, the area between the lilac-tipped side lobes is white with a lilac mid line.

Lælia lilacina, Philbrick. (*Veitch Man. Cattl. and Lælia,* p. 89.) Peduncle 2 or more flowered. Sep. and pet. pale lilac. Lip white marked on

the inside of the side lobes with purple lines, and with a rayed purple blotch on the disk.

Lælia Lindleyana, Veitch. (*Veitch Man. Cattl. and Lælia*, p. 73.) Syn. *Cattleya Lindleyana*, Rchb. f.

Lælia lobata, Veitch. (*Veitch Man. Cattl. and Lælia*, p. 74, with fig.) This is a synonym of **L. Boothiana,** Rchb. f., and is the same as *L. Rivieri*, Carr., and *Cattleya lobata*, Lindl.

Lælia pumila, var. **Curleana,** Rchb. f. (*G. C.* 1886, v. 26, p. 712.) A variety having a few dark streaks on the sep., and some oblique radiating lines on the margins of the pet. and outside the lobes of the lip.

—— Var. **præstans,** Veitch. (*Veitch Man. Cattl. and Lælia*, p. 79.) Syn. *L. præstans*, Rchb. f.

Lælia purpurata, var. **Lowiana,** Rchb. f. (*G. C.* 1887, v. 1, p. 799.) A variety with rose-coloured sep. and pet., and a very dark mauve-purple lip with very little yellow at the base.

—— Var. **Russelliana,** Williams. (*W. O. A.* v. 6, pl. 269.) Syn. *L. Russelliana.*

Lælia rubescens, var. **alba,** Veitch. (*Veitch Man. Cattl. and Lælia*, p. 82.) A var. with white fl. marked with a yellow stain on the lip.

—— Var. **rosea,** Veitch. (*Veitch Man. Cattl. and Lælia*, p. 82.) Fl. rosy-mauve, with a dark purple blotch on the lip. Syn. *L. peduncularis*, Lindl.

Lælia triophthalma, Veitch. (*Veitch Man. Cattl. and Lælia*, p. 97.) Syn. *Cattleya triophthalma*, Rchb. f.

Landolphia florida, Bth. (*B. M.* t. 6963; *G. C.* 1887, v. 1, p. 804.) Apocyneæ. S. A handsome climber, with large, opposite, elliptic-oblong, bluntly pointed l., and dense compact cymes of fragrant white fl., 1¾ in. in diam., with narrow spreading lobes. Trop. Africa.

Lapeyrousia grandiflora, Baker. (*B. M.* t. 6924.) Iridaceæ. G. A handsome species similar in habit to Anomatheca cruenta, but larger. Corm small, stoloniferous. L. 6–12 in. long, ½ in. broad. Spikes 4–10-flowered. Fl. 2 in. in diam., bright red with a yellow eye, and the 3 lower segments marked with a large, triangular, dark crimson spot. S.E. Trop. Africa. Syn. *Anomatheca grandiflora*, Baker.

Lastrea Jenmani, Bull. (*Bull. Cat.*, p. 11.) Filices. S. Fern with stout, erect, scaly stipes, and bipinnate fronds, about 2 ft. long by 9–12 in. broad, densely pellucid dotted. Jamaica. A synonym of **Nephrodium Jenmani,** Baker.

Lastrea lepida, T. Moore. (*G. C.* 1886, v. 26, p. 681.) S. An elegant fern, with ovate-acuminate fronds, having alternate, very shortly stalked, lanceolate-acuminate, pinnatifid pinnæ, the central ones longest, glabrous, with hairy midribs and setose margins; sori placed near the midribs on each side, with inflated, roundish-reniform, lead-coloured, hairy indusia. Stipes green, setose on the margin of the groove down the face.

Leschenaultia Baxteri, var. **major,** Carrière. (*R. H.* 1886, p. 468, with pl.) Goodeniaceæ. G. A dwarf, much branched, free-flowering shr., with close-set, linear l., and numerous dark orange-red, pendulous fl., on peduncles about ¾ in long. The corolla is two-lipped, with unequal divisions, three being much larger than the other two, and notched at their tips. Australia.

Ligustrum japonicum, var. **Alivoni,** André. (*R. H.* 1886, p. 537.) Oleaceæ. H. shr. A robust form with ovate-lanceolate, acuminate, entire l., narrowed at the base, wavy at the margin, of a dark shining green, irregularly variegated with pale yellowish. Garden variety.

Ligustrum rosmarinifolium, Carrière. (*R. H.* 1887, p. 63.) H. shr. Garden variety.

Liparis elegans, Ldl. (*G. C.* 1886, v. 26, p. 558.) Orchideæ. Bulbs ovate, 1–3-leaved. L. 3–8 in. long, lanceolate-linear acute. Fl. stem 1–1½ ft. high, bearing a many flowered raceme of pale greenish fl. with an orange-red lip. Penang.

Littonia modesta, var., **Keitii,** Leichtl. (*Gfl.* 1886, p. 677, t. 1237.) Liliaceæ. G. bulb. A more robust form than usual. S. Africa.

Lonchocarpus Barteri, Benth. (*B. M.* t. 6943, *G. C.* 1886, v. 26, p. 785.) Leguminosæ. S. A handsome climber, with pinnate l., having 5–7 elliptic-oblong, acuminate leaflets, 4–7 in. long, and elegant paniculate racemes of clustered pink fl., with reddish-brown calices. Trop. Africa.

Lycaste plana, var. **Measuresiana,** Williams. (*W. O. A.* v. 7, pl. 306; *G. C.* 1887, v. 2, p. 788.) Orchideæ. A beautiful free-flowering var., with reddish-brown sep. tipped with green, and green outside. Pet. and lip white, densely spotted with rose-purple, except on the margins of the pet. Bolivia.

Lycaste Skinneri, var. **reginæ,** Williams. (*W. O. A.* v. 6, pl. 283.) A var. with light rosy-purple sep. and dark magenta-purple pet and lip. Guatemala.

Mammillaria cornimamma, N. E. Br. (*G. C.* 1887, v. 2, p. 186,) Cactaceæ. G. succulent with globose stem, white woolly in the axils of the younger tubercles and spine tufts. Tubercles large, with 10–13 rather stout radiating spines, and 1–3 stouter and longer inner spines. Fl. 3 in. in diameter, light yellow with a purplish stripe down the back of all but the innermost segments, which are all linear-lanceolate acute. Stamens and stigmas yellow, the filaments tinted with orange-red.

Maranta iconifera, Bull. (*Bull Cat.*, p. 11.) Scitamineæ. S. foliage plant. From description this appears to be the same as **Calathea Makoyana.**

Masdevallia acrochordonia, Rchb. f. (*G. C.* 1886, v. 26, p. 526.) Orchideæ. Much in the way of *M. ephippium*, but with narrow and less inflated lateral sep.; and acuminate pet. with a strong spreading angle at their base.

Masdevallia astuta, Rchb. f. (*G. C.* 1886, v. 26, p. 558.) Allied to *M. Gaskelliana*, with oblong acute l., 6–8 in. long. Peduncle about as long as the l., sep. triangular, outside brown, with the centre and apex yellow, inside hispid, ochreous, spotted with brown, tails brown. Lip saccate with 3 keels, pale yellowish. Costa Rica.

Masdevallia demissa, Rchb. f. (*G. C.* 1887, v. 2, p. 9.) L. cuneate-spathulate, very thick. Peduncle much shorter than the l., one-flowered. Fl. with the upper sep. yellow, with 3-brownish-purple lines, and the side sep. brownish-purple, tails yellow, the lower ones descending, the upper one incumbent; sep. triangular, the lateral ones connate and much longer than the dorsal one. Costa Rica.

Masdevallia Galeniana, Rchb. f. (*G. C.* 1887, v. 2, p. 586.) Garden hybrid.

Masdevallia glaphyrantha, Rchb. f. (*G. C.* 1886, v. 26, p. 648; *Gfl.* 1887, p. 340.) Garden hybrid.

Masdevallia Hincksiana, Rchb. f. (*G. C.* 1887, v. 2, p. 214.) Garden hybrid.

Masdevallia ignea, var. **Massangeana,** Williams. (*W. O. A.* v. 6, pl. 273.) A trifling var. with darker scarlet fl. New Granada.

Masdevallia pusiola, Rchb. f. (*G. C.* 1887, v. 1, p. 140.) The smallest known species of this genus, with lanceolate l. an inch long, and small yellow fl. $\frac{1}{4}$ in. long, on capillary stalks. Columbia.

Masdevallia sororcula, Rchb. f. (*G. C.* 1887, v. 2, p. 713.) Allied to *M. elephanticeps*, having a very similar fl., but the angular projection of the fissure of the lateral sep. is not developed, and the lip is three-lobed. Outside the fl. is greenish, with purplish dots on the nerves; inside the upper sep. is pallid, with three purple lines, and the lateral sep. purple, with green tails. Pet. white, with dark purple mid line. Lip white and purple.

Masdevallia Wendlandiana, Rchb. f. (*G. C.* 1887, v. 1, p. 174.) A small white-flowered species. L. spathulate, minutely bilobed. Peduncle 1-flowered; fl. $\frac{2}{3}$ in. long, the tails equal to the free part of the sep., white, with 2–3 mauve lines outside beneath. New Granada.

Matricaria eximia, var. **pyramidalis,** Carrière. (*R. H.* 1886, p. 557, f. 131.) Compositæ. H. annual or per. A form of compact and somewhat pyramidal habit. Garden variety.

Maxillaria fucata, Rchb. f. (*G. C.* 1886, v. 26, p. 616.) Orchideæ. Allied to *M. irrorata*, but with no powder on the lip. L. oblong-lanceolate acuminate, 8–9 in. long, on petioles 5–7 in long. Peduncles a span long, with many sheaths. Sep. triangular, the lateral ones broadest, with reflexed tips, white outside; inside white at base, purple in the middle, and yellow with red spots at apex. Pet. rhomboid, blunt-angled at the sides, coloured like the sep. but without the apical spots. Lip oblong-elliptic, trifid in front, side lobes rounded, mid lobe small, semi-oblong, emarginate, ochreous, marked with brown stripes, and with brown marginal parts to the side lobes.

Maxillaria molitor, Rchb. f. (*G. C.* 1887, v. 2, p. 242.) Allied to *M. grandiflora*, with similar bulbs and l., and smaller fl. Sep. acute, yellow, tinged with brown on the upper halves outside; pet. smaller, oblong-lanceolate, yellow. Lip with rounded, yellow side lobes, dotted on the margin with brown, and a triangular, obtuse, wavy, brown front lobe, the disk is mealy with a crescent-shaped naked crest.

Maxillaria Sanderiana, Rchb. f. (*R.* v. 1, p. 57, t. 25; *G. C.* 1887, v. 1, p. 485.) A magnificent species with compressed one-leaved bulbs. L. stalked, broadly oblong, obtuse, apiculate. Fl. 4–5 in. in expanse, ivory white, with the base of the sep. and pet., and the outside of lip dark vinous-crimson. On the sep. and pet. the upper part of the crimson breaks up into spots and streaks. The inside of the lip is yellowish, with vinous-crimson spots. Peru.

Miltonia Bluntii, var. **Lubbersiana,** Rchb. f. (*G. C.* 1887, v. 2, p. 649.) Orchideæ. A var. spotted with brown on the sep. and pet., and having a purple lip.

Miltonia spectabilis, var. **lineata,** Linden. (*L.* v. 2, p. 31, pl. 62.) A handsome var. with a large purple blotch at the base of the lip and seven purple veins radiating from it nearly to the margin.

Miltonia spectabilis, var. **Moreliana,** Linden. (*L.* v. 3, p. 21, pl. 105.) Syn. *M. Moreliana.*

Morina betonicoides, Bth. (*B. M.* 6966.) Dipsaceæ. H. A pretty herbaceous per. 10–18 ins. high, with linear-lanceolate, spinose-ciliate l., and heads of bright rose-purple fl., marked with a crimson spot at the base of the three lower lobes of the curved funnel-shaped corolla. Sikkim.

Mormodes pardinum, var. **melanops,** Rchb. f. (*G. C.* 1886, v. 26, p. 680.) Orchideæ. A form with very dark brownish-purple fl.

Mormodes platychila, Rolfe. (*G. C.* 1887, vol. 1, p. 178.) A distinct-looking species with compact, erect racemes of pale buff-coloured fl. over an in. in expanse, marked with many dull purple stripes on the lip.

Mormodes vernixum, Rchb. f. (*G. C.* 1887, v. 2, p. 682.) Allied to *M. buccinator*, with a close raceme of shining blackish-purple fl. Sep. and pet. broad. Lip like that of *M. variabilis,* but without hairs. Roraima.

Mutisia viciæfolia, Cav. (*R. H.* 1887, p. 484.) Compositæ. G. A handsome climber. L. pinnate, ending in a tendril, leaflets numerous, lanceolate, acute, glabrous. Heads showy, orange, the involucre long and cylindric. Peru.

Myriocarpa colipensis, Liebm. (*G. C.* 1887, v. 2, p. 243.) Urticaceæ. S. Shr. of bold habit, with a stout stem, and large, elliptic, acute, bright green l., 15–18 in. long, on stout petioles 10–12 in. long. The small fl. are disposed in pendulous, slender, forked spikes, 1½–2 ft. long. Mexico. Syn. *M. stipitata* (*G. C.* 1887, v. 1, p. 257.)

Mystacidium filicorne, Lindl. (*G. C.* 1887, v. 2, p. 123–5, f. 33, and p. 686.) Orchideæ. A pretty, free-flowering, Angræcum-like orchid, of tufted habit, with narrow oblong l., 2–5 in. long, and about ½ in. broad, obtusely 2-lobed at apex, and racemes of numerous white fl. an in. in diam. Sep., pet. and lip lanceolate acute, spur slender, 2 in. or more long. Natal.

Narcissus cyclamineus, Baker. (*B. M.* t. 6950.) Amaryllidaceæ. H. bulb. A distinct-looking species with small ovoid bulb, producing 2–3 linear, square-keeled l. and solitary fl., with an orange tubular corona, as long as the oblong light yellow perianth segments, which are abruptly reflexed, so that they and the corona are in a line. Portugal.

Narcissus pseudonarcissus, var. **Johnstoni,** Tait. (*G. C.* 1887, v. 1, p. 288, p. 60.) H. A variety with pale sulphur-coloured fl., remarkable for the long and rather slender coronal-tube, which is about ¾ in. long and less spreading at the mouth than in the common Daffodil. Portugal.

Nepenthes Curtisii, Mast. (*G. C.* 1887, v. 2, p. 681 and 689, f. 133.) Nepenthaceæ. S. A handsome Pitcher-plant with oblong l., obtusely bilobed at the apex, and cylindric pitchers, 6–8 in. long, dull green mottled with purple, having fringed wings, a deeply frilled mouth, and an erect ovate wavy lid, which is prettily reticulated with purple on a pale ground, and has a compressed obtuse horn at the base, and a slender horn near the apex inside; a little below the base of the lid on the back of the pitcher is another slender horn or spur. Borneo.

Nepenthes cylindrica, Veitch. (*G. C.* 1887, v. 2, p. 521, f. 103.) Garden hybrid.

Nepenthes Mastersiana, Veitch. (*Veitch Cat.* p. 43, and 46 with fig.; *Ill. H.* v. 33, p. 187, pl. 618.) Garden hybrid.

Nephrolepis rufescens, Splitgerb. var. **tripinnatifida,** Veitch. (*Veitch Cat.* p. 10, and 3 with fig. *G. C.* 1887, v. 1, p. 476, f. 90, and p. 481, p. 91.) Filices S. A handsome decorative fern, with large, graceful, lanceolate fronds, which in the typical form are pinnate with distant lanceolate, entire pinnæ, but in the form figured, the pinnæ are deeply pinnatifid and overlapping; the fronds are clothed, especially beneath, with short reddish hairs. Tropical America.

Nephthytis picturata, N. E. Br. (*G. C.* 1887, v. 1, p. 476; *Bull Cat.* p. 11, and 5 with fig.) Araceæ. S. foliage plant. Petioles 10–12 in. long. Blade of l. spreading 6–12 in. long, 5–9 in. broad, ovate-hastate, dark green, variegated between the nerves with whitish, the variegation resembling in pattern the tips of fern fronds, with their tips directed towards the base of the midrib. Congo.

Nerine Moorei, Max. Leichtlin. (*G. C.* 1886, v. 26, p. 681.) Amaryllidaceæ. G. bulb with slightly twisted, thick, blunt l., 9–12 in. long, and an umbel of 6–9 bright scarlet fl., with crisped, oblanceolate segments, 1¼ in. long.

Nesopanax vitiensis, Seem. (*Gfl.* 1887, p. 71.) Araliaceæ. S. A small tree, with long-stalked, large, digita e l

having 6–10 obovate, bluntly-pointed leaflets, attenuated at their base into long stalks. Umbels compound, 9–12 in. in diameter; fl. green. Fiji.

Nidularium Makoyanum, Rgl. (*Gfl.* 1887, p. 656.) Bromeliaceæ. S. epiphyte in the way of *N. spectabile*, differing in the l. being green on both sides, obscurely white-banded beneath; the bracts green, narrow linear-lanceolate; and the pet. free to the base, whitish, slightly violet towards the acuminate tips. Trop. America.

Notylia Bungerothii, Rchb. f. (*G. C.* 1887., v. 2, p. 38.) Orchideæ. Bulbs large, broadly oblong, rugose. L. broadly cuneate-oblong. Fl. small, yellowish-green, in long dense racemes. Tropical America, Venezuela?

Nymphæa flava, Leitn. (*B. M.* t. 6917; *R. H.* 1887, p. 192.) Nymphæaceæ. G. on S. aquatic, with a cylindric rootstock, round l., sinnate on the margin, deeply notched at base; and pale yellow fl. 4 in. in diam. Florida.

Nymphæa kewensis, Watson. (*G. C.* 1887, v. 2, p. 366.) Garden hybrid.

Nymphæa tuberosa, var. **flavescens,** Oliver. (*G. C.* 1887, v. 2, p. 366.) H.? aquatic, with a long stout rhizome producing numerous tubers, l. like those of N. alba, and fl. 4–6 in. in diam., of a creamy-white with bright yellow stamens.

Nymphæa zanzibarensis, var. **fl. rubro,** Sib. (*Gfl.* 1887, p. 83, t. 1240.) S. A var. with deep rose-purple fl.

Octomeria supraglauca, Rolfe. (*G. C.* 1887, v. 2. p. 716.) Orchideæ. A small tufted species about 2 in. high, with elliptic fleshy l., whitish green above, dark green, obscurely tessellated with dark purple beneath, and minutely furrowed. Peduncles 2–3 flowered. Fl. ¾ in. long, pale glassy-green, faintly tinted with purplish outside, and a yellowish lip marked with a large lurid purple blotch. Sep. and pet. lanceolate acuminate, lip one-fourth as long, obtuse.

Odontoglossum Alexandræ, var. **Cutsemianum,** Linden. (*L.* v. 2. p. 47, pl. 70.) Orchideæ. See **O. crispum,** var. **Cutsemianum.**

Odontoglossum Andersonianum, var. **splendens,** Williams. (*W. O. A.* vol. 7, pl. 292; *G. C.* 1887, v. 2, p. 220.) See **O. crispum,** var. **splendens.**

Odontoglossum bictonense, var. **roseum,** Veitch. (*Veitch Man. Odont.*, p. 13.) This is probably a synonym of the var. **rubrum.** The sep. and pet are brown and the lip deep rose.

—— Var. **speciosum,** Rgl. (*Gfl.* 1887, p. 346, t. 1250, f. c–d.) A var. with dark-purple sep. and pet., transversely marked with yellow, and a rosy-purple lip.

—— Var. **sulphureum,** Veitch. (*Veitch Man. Odont.*, p. 13.) A var. with yellow sep. and pet., and a white lip.

Odontoglossum blandum, var. **Rossianum,** Rchb. f. (*G. C.* 1886, v. 26, p. 712.) A nice variety having the sep. and pet. spotted with brown, the base of the lip yellow with red spots, the blade of the lip spotted and streaked with purple, and the crests yellow.

Odontoglossum Cervantesii, var. **roseum,** Veitch. (*Veitch Man. Odont.*, p. 16.) A form with pale rose-coloured fl.

Odontoglossum citrosmum, var. **album,** Veitch. (*Veitch Man. Odont.*, p. 19.) This has pure white fl. with a yellow crest to the lip.

—— Var. **punctatum,** Veitch, (*Veitch Man. Odont.*, p. 19.) Has pale rose-coloured fl. dotted with purple on the seps. and pet.

—— Var. **roseum,** Veitch, (*Veitch Man. Odont.*, p. 19.) A form with a deep rose-coloured blade to the lip.

Odontoglossum constrictum, var. **pallens,** Rchb. f. (*G. C.* 1886, v. 26, p. 648.) A form with sulphur-coloured sep. and pet., and a whitish lip with a very light yellowish hue.

—— Var. **Sanderianum,** Veitch. (*Veitch Man. Odont.*, p. 20.) A reduction to the rank of variety of the *O. Sanderianum*, Rchb. f.

Odontoglossum Coradinei, var. **grandiflorum,** Rchb., f. (*L.* v. 2, p. 93; *G. C.* 1887, v. 2, p. 108.) A handsome large-flowered form of **O. Lindleyanum,** var. **Coradinei,** having light-yellow fl. blotched and spotted with chestnut-brown. New Granada. See p. 113.

Odontoglossum coronarium, var. **chiriquense,** Veitch. (*Veitch Man. Odont.*, p. 23.) A var. having rather larger and paler fl. than the type. Sep. chestnut-brown; pet. yellow with some brown markings; lip yellow with a brown blotch on the disk. Chiriqui. Syn. *O. chiriquense*, Rchb. f.

—— var. **miniatum,** Veitch. (*Veitch Man. Odont.*, p. 23.) A form with the bulbs placed more closely together, and a denser inflorescence and smaller fl. Sep. and pet. chestnut-brown, bordered with yellow; lip yellow. Ecuador. Syn. *O. miniatum* of gardens.

Odontoglossum crispum, var. **Andersonianum**, Veitch. (*Veitch Man. Odont.* p. 25 and 26, with fig.) Syn. *O. Andersonianum*, Rchb. f.

—— Var. **angustatum**, Veitch. (*Veitch Man. Odont.*, p. 25). A form of the *Andersonianum* var., with narrower and more pointed fl.-segments, and larger blotches on the pet.

—— Var. **apiatum**, Ballantine. (*Veitch Man. Odont.*, p. 27; *G. C.* 1886, v. 25, p. 568.) A var. stained with violet-purple on the sep., and all the segments marked with one large and two smaller brown blotches.

—— Var. **Chestertoni**, Rchb. f. (*Veitch Man. Odont.*, p. 26.) A var. with broad sep. and pet., white, with two large, and one small reddish-brown blotch on the sep., and 2–5 spots on the pet. Lip reddish-brown, with a broad yellowish-white margin.

—— Var. **Cutsemianum**, N. E. Br. A large-flowered form, with broad toothed pet., white, spotted with red. Syn. *O. Alexandræ*, var. *Cutsemianum*, Linden.

—— Var. **Edithiæ**, N. E. Br. A var. with yellow fl. blotched with brown, the sep. suffused with rose, and the pet. with white centres. Columbia. Syn. *O. Edithiæ*, Warner.

—— Var. **fastuosum**, Linden. (*L.*, v. 3, p. 41, pl. 115.) A distinct and handsome form, with broad rosy-purple sep. and pet., and a white lip spotted with purple-brown.

—— Var. **Hrubyanum**, Rchb. f. (R. vol. 1, p. 65, t. 29.) A large-flowered var. in which the whole of the central area of the very broad sep. and pet. is occupied with a brown blotch. Columbia.

—— Var. **hyperxanthum**, Rchb. f. (*G. C.* 1887, v. 1, p. 477.) A variety having white sep. and pet. and a yellow lip, the sep. also being marked with a few yellow spots; no purple spots.

—— Var. **Jenningsianum**, Veitch. (*Veitch Man. Odont.*, p. 26.) Syn. *O. Jenningsianum*, Rchb. f.

—— Var. **limbatum**, Veitch. (*Veitch Man. Odont.*, p. 26.) Syn. *O. limbatum* Rchb. f.

—— Var. **lobatum**, Veitch. (*Veitch Man. Odont.*, p. 25.) Syn. *O. Andersonianum* var. *lobatum*, Rchb. f.

—— Var. **Pollettianum**, N. E. Br. A var. with the sep. and pet. tinted with purple, and margined with creamy white; they are much spotted with reddish-brown, and the lip has a brown blotch on the middle. New Granada. Syn. *O. Pollettianum*, Williams.

—— Var. **reginæ**, Philbrick. (*W. O. A.*, v. 6, pl. 264.) A form with white fl. evenly spotted with reddish-brown, the disk of the lip being yellow. New Grenada.

—— Var. **Ruckerianum**, Veitch. (*Veitch Man. Odont.*, p. 27, with fig.) Syn. *O. Ruckerianum*, Rchb. f.

—— Var. **splendens**, N. E. Br. A var. with white fl., tinged with rose, and marked on the sep. with a large brown blotch in the centre and several smaller spots at the base, the base of the pet. spotted with brown, and the lip with a large central brown blotch and some small spots of the same colour on each side of the base, which is yellow with some radiating dark red lines. Columbia. Syn. *O. Andersonianum*, var. *splendens*, Williams.

—— Var. **tenue**. (*Veitch Man. Odont.*, p. 25.) Syn. *O. Andersonianum*, var. *tenue*, Rchb. f.

—— Var. **Wolstenholmiæ**, Rchb. f. (*G. C.* 1887, v. 2, p. 98.) A var. with large ochre-brown spots and mauve borders to the sep. and pet., and a brown disk to the lip, which has yellow crests.

Odontoglossum cristatum, var. **cristatellum**, Veitch. (*Veitch Man. Odont.*, p. 32.) Syn. *O. cristatellum*, Rchb. f.

Odontoglossum Edithiæ, Warner. (*W. S. O. P.*, ser. 3, pl. 25.) See **O. crispum**, var. **Edithiæ**.

Odontoglossum euastrum, Rchb. f. (*G. C.* 1887, v. 2, p. 71.) A handsome species allied to *O. Brassia*, with white fl. marked with mauve and brown stripes and spots on the sep., and some brown spots on the lip, which is rather heart-shaped at the base and toothletted, abruptly contracted into a long lanceolate front lobe, crests brown, the disk around them sulphur-coloured.

Odontoglossum eugenes, Veitch. (*Veitch Man. Odont.*, p. 73.) A handsome species resembling *O. Pescatorei* in foliage, and *O. triumphans* in infl. Sep. pale yellow with brown blotches, usually arranged in three groups. Pet. with a broad pale yellow margin, and the base and centre white with some brown spots. Lip like that of *O. triumphans*, with a crest similar to that of *O. Pescatorei*. Columbia.

Odontoglossum gracile, Lindl. (*Veitch Man. Odont.*, p. 74.) A distinct-looking species, easily recognised by the peculiar blackish tinge of the bulbs, leaves, and peduncle, which is paniculately branched, the branches bearing

2–3 reddish-brown fl., about 1 in. in diam., having two whitish crests on the fleshy lip. Ecuador.

Odontoglossum grande, var. **Williamsianum,** Veitch. (*Veitch Man. Odont.* p. 33.) Syn. *O. Williamsianum,* Rchb. f.

Odontoglossum Harryanum, Rchb., f. (*G. C.* 1886, v. 26, p. 486, and 1887, v. 2, p. 168–9, f. 41. *Veitch Man. Odont.*, p. 37, with fig.) A very distinct species with racemes of large handsome fl. Sep. rather broad, ligulate-oblong, acute, wavy, brown with yellow bars and margin. Pet. rather narrower, wavy, with yellow recurved points, base white with elongated mauve blotches, above the middle brown with yellow margin and apex. Lip with a narrow basal part angled on each side, which is yellowish with mauve borders and lines; and a broad, pandurate blade, abruptly contracted into an ovate acute point, white at first, changing to yellow, striped with mauve-purple and having a yellow frimbriate crest.

Odontoglossum hinnus, Rchb. f. (*G. C.* 1887, v. 1, p. 606.) A curious-looking species, with narrow lanceolate, wavy sep. and pet., and a narrow acuminate lip, all the parts are yellow and brown.

Odontoglossum histrionicum, Rchb. f. (*G. C.* 1887, v. 1, p. 512.) A fine form with elongate sep. and pet. of a whitish-ochre, bordered and spotted with brown, the pet. are wavy and toothed. Lip very broad, rhomboid acuminate, toothed and angled, broken on the upper half so as to appear cordate, yellow blotched and marked with brown.

Odontoglossum Lindleyanum, var. **Coradinei,** Veitch. (Veitch Man. Odont., p. 43.) Syn. *O. Coradinei,* Rchb. f. and var. *grandiflorum,* Rchb. f., see p. 111.

—— Var. **ligulare,** Veitch. (*Veitch Man. Odont.*, p. 43.) Syn. *O. ligulare,* Rchb. f.

—— Var. **mirandum,** Veitch. (*Veitch Man. Odont.*, p. 43.) Syn. *O. mirandum,* Rchb. f.

Odontoglossum Lucianianum, Rchb, f. (*Ill. H.* v. 34, p. 23, pl. 7; *L.* v. 2, p. 37, pl. 65; *G. C.* 1886, v. 26, p. 712.) Something in the way of *O. nævium* and *O. odoratum,* with a fine raceme of white fl. spotted on the lanceolate acuminate sep. and pet. with reddish-brown, and having a semilunate blotch of the same on the basal part of the ovate acuminate lip. Venezuela.

Odontoglossum luteopurpureum, var. **cuspidatum,** Veitch. (*Veitch Man. Odont.* p. 45.) Syn. *O. cuspidatum,* Rchb. f.

—— Var **facetum,** Veitch. (*Veitch Man. Odont*, p. 45.) Syn. *O. facetum,* Rchb. f., and *O. prænitens,* of gardens.

—— Var. **Hinnus,** Veitch. (*Veitch Man. Odont.*, p. 46.) Syn. *O. Hinnus,* Rchb. f.

—— Var. **magnificum,** Williams and Moore. (*W. A. O.*, v. 6, pl. 254.) A large-flowered var. with the sep. entirely chestnut-brown except the apex and base, and the pet. and lips heavily blotched with chestnut-brown. New Grenada. Syn. *O. hystrix* var. *magnificum* of gardens.

—— Var. **Mulus,** Veitch. (*Veitch Man. Odont.*, p. 46.) Synonyms *O. Mulus,* Rchb. f. and *O. histrionicum* Rchb. f.

—— Var. **Vuylstekeanum,** Veitch. (*Veitch Man Odont.*, p. 47.) Syn. *O. Vuylstekeanum,* Rchb. f.

Odontoglossum lyroglossum, Rchb., f. (*R.* vol. 1, p. 65, with fig.) Something in the way of *O. Pescatorei,* with yellow fl. blotched with brown. Sep. oblong acute, the lateral ones falcate. Pet. elliptic acute. Lip panduriform, the front part reniform and very obtuse, crest consisting of two falcate keels with a smaller one between them, and several short radiating keels behind them. Columbia?

Odontoglossum nebulosum, var. **candidissimum,** Veitch. (*Veitch Man. Odont.*, p. 53.) This is probably the same as the var. **candidum.** Fl. without spots.

Odontoglossum odoratum, var. **baphicanthum,** Veitch. (*Veitch Man. Odont.*, p, 55.) Syn. *O. baphicanthum,* Rchb. f.

—— Var. **hebraicum,** Veitch. (*Veitch Man. Odont.*, p. 56.) Syn. *O. hebraicum,* Rchb. f.

—— Var. **Leeanum,** Veitch. (*Veitch Man. Odont.*, p. 56.) Syn. *O. Leenum,* Rchb. f.

Odontoglossum Pescatorei, var. **Germinyanum,** Williams. (*W. O. A.* v. 7, pl. 305. *G. C.* 1887, v. 2, p. 788.) A handsome var. with white fl. flushed with light rosy-purple on the sep., and marked with a few rose-purple spots, chiefly on the midline of the sep., and one at the apex of the pet. The lip is white, with the basal part broadly margined with purple around a yellow disk, which has some radiating purple

lines on it, and a figured blotch in front, there are also a few purple spots on the front lobe.

—— Var. **leucoxanthum,** Rchb. f. (*G. C.* 1887, v. 1, p. 606, f. 114.) A variety with pure white fl., only marked with orange on the crests and column.

—— Var. **stupendum,** Rchb. f. (*G. C.* 1887, v. 2, p. 186.) A large-flowered var. with the disk of upper sep., outer halves of lateral sep., and some spots on the pet, and lines on the lip mauve-purple.

Odontoglossum Pollettianum, Williams. (*W. O. A.* v. 6, pl. 280.) See **O. crispum** var. **Pollettianum.**

Odontoglossum polyxanthum var. **grandiflorum,** Williams. (*W. O. A.* v. 6, pl. 258.) A fine large-flowered var., with deep yellow sep. and pet., the former marked with a few large brown blotches, the latter with smaller blotches confined to the base. Lip chocolate-brown, edged with whitish, and with a yellow base. Ecuador.

Odontoglossum ramosissimum, var. **liliiflorum,** Veitch. (*Veitch Man. Odont.*, p. 63.) A robust var. with larger fl. of a pale rose-purple, marked with some white ocellated spots on the basal part of the sep. and pet., which are less wavy than in the type. New Granada.

Odontoglossum rhynchanthum, Rchb. f. (*G. C.* 1887, v. 1, p. 380.) Something in the way of *O. Lindleyanum.* Raceme lax, sep. and pet. ligulate acute, yellow, with a brown line and a few brown spots at base of pet. Lip with a narrow acuminate front lobe, keels 2 or 4, no bristles.

Odontoglossum Rosii, Lindl. The following are made varieties of this in *Veitch Man. Odont.*, p. 65:—

—— Var. **aspersum,** Veitch. Syn. *O. aspersum,* Rchb. f.

—— Var. **cœrulescens,** Veitch. Syn. *O. cœrulescens,* A. Rich.

—— Var. **Ehrenbergii,** Veitch. Syns. *O. Dawsonianum,* Rchb. f., and *O. Ehrenbergii,* Lindl.

—— Var. **Humeanum,** Veitch. Syn. *O. Humeanum,* Rchb. f.

—— Var. **majus,** Carrière. (*R. H.* 1886, p. 492, with pl.) This is the same as the var. **rubescens,** Veitch.

—— Var. **rubescens,** Veitch. Syn. *O. rubescens,* Lindl.

—— Var. **Smeeanum,** Rchb. f. (*G. C.* 1887, v. 1, p. 799.) A fine variety, with a brown sep., marked with a few whitish dots; white pet., with a brown disk and base; and a white lip with a yellow crest.

—— Var. **virescens,** Veitch. A var. with white fl. spotted with green.

—— Var. **Warnerianum,** Veitch. Syn. *O. Warnerianum,* Rchb. f.

Odontoglossum Schillerianum, Rchb. f. (*L.* v. 2, p. 71, pl. 82; *G. C.* 1887, v. 1, p. 646.) Rather a showy species with compressed oblong bulbs, bearing one strap-shaped acute l. convolute at the base. Racemes erect, about a ft. high, several flowered. Sep. and pet. oblong-lanceolate acute, yellow, blotched with chocolate. Lip with very small tooth-like side lobes, and a cordate-ovate acute front lobe, with two keels on the disk; base white, the front part chocolate with a yellow margin. Venezuela.

Odontoglossum Schroederianum, Rchb. f. (*G. C.* 1887, v. 2, p. 364.) The plant here described is **Miltonia Clowesii,** and not at all the same as *O. Schroederianum* described by Prof. Reichenbach in *G. C.* 1882, v. 17, p. 700, which I am informed on competent authority is but a form of **O. crispum.**

Odontoglossum staurastrum, Rchb. f. (*G. C.* 1887, v. 1, p. 313.) Very similar to *O. Lindleyanum,* but sep. and pet. broader, light yellowish-green, blotched with brown. Lip white, with dark brown on the front lobe, and some mauve stripes between the keels, and some spots on the sides of the stalk. Columbia.

Odontoglossum stauroides, var. **Gravesianum,** Rchb. f. (*G. C.* 1887, v. 2, p. 154.) A form with ochre-sulphur sep. and pet. marked with a few spots and some lines and dots of purple-brown at the base, and a white lip with the centre and some lines and spots at the base purple-brown, crests yellow.

Odontoglossum tripudians, var. **leucoglossum,** Veitch. (*Veitch. Man. Odont.*, p. 67.) A var. with the ground colour of the lip white.

—— Var. **xanthoglossum,** Veitch. (*Veitch. Man. Odont.*, p. 67.) Has the ground colour of the lip canary-yellow.

Oncidium Braunii, Rgl. (*Gfl.* 1886, p. 621, t. 1235, f. a-e; *R. H.* 1887, p. 144.) Orchideæ. Bulbs compressed, ovoid. L. solitary, ovate-oblong, subacute. Panicle narrow, raceme-like, with very short 2–3-flowered branches. Fl. small, yellow marked with brown on the sep. pet. and basal half of the

lip. Sep. oblong reflexed, the lateral ones connate at base. Pet. ovate-oblong. Lip pandurate, bilobed, with a many-tubercled crest, pubescent at the base.

Oncidium hastatum, var. **hemimelænum,** Rchb. f. (*G. C.* 1887, v. 2, p. 127.) A var. with blackish-purple sep. and pet.; tipped, and occasionally spotted on the pet. with whitish-green.

Oncidium Hookeri, Rolfe. (*G. C.* 1887, v. 2, p. 520.) A new name for the plant figured in the Botanical Magazine, t. 3712, as *O. ranifcrum*, var. *major*. It differs from *O. raniferum* in having the lateral sep. united for half their length. Brazil.

Oncidium Jonesianum, var. **phæanthum,** Rchb. f. (*R.* v. 1, p. 47, t. 21.) A var. with brownish sep. and pet., a smaller crest on the lip, and no spots. Paraguay.

Oncidium lutescens, Rchb. f. (*G. C.* 1887, v. 1, p. 799.) Allied to *O. metallicum*, differing in the long, wavy, dorsal sep., the 3-toothed crest of the lip, and acute column-wings. Dorsal sep. dark brown with yellow recurved margin, lateral sep. greenish-brown; pet. very short, auricled, hastate-triangular, wavy, dark brown with yellow edge; lip oblong, short, dark greenish at the angled base, purple on the front part.

Oncidium stelligerum, var. **Ernesti,** Williams. (*W. O. A.*, v. 6, pl. 260; *G. C.* 1887, v. 1, p. 15.) A var. with pale yellow fl. with large rounded brown spots on the sep. and pet., and a reddish-purple front lobe to the lip. Mexico.

Oncidium tigrinum, var. **lugens,** Rchb. f. (*G. C.* 1886, v. 26, p. 553.) A variety with the sep. and pet. of a uniform dark reddish-brown inside, the tips being yellow and the dorsal keels green.

Oplismenus Burmanni, var. **albidulum,** N. E. Br. (*G. C.* 1886, v. 26, p. 776.) Gramineæ. G. or S. A pretty little grass of dwarfer and more compact habit than the common variegated form (*Panieum variegatum* of gardens), having the l. mostly white, with a green stripe along the midrib. India.

Onnithidum ochraceum, Rchb. f. (*G. C.* 1887, v. 1, p. 209.) Orchideæ. An unattractive plant, with distant, elliptic, two-edged bulbs on an ascending stem, bearing one apical and one basal cuneate-oblong unequally acute l. Fl. few and very small; sep. and pet. ochreous with a few purple spots lip white with the disk of front lobe ochre, dotted with mauve. New Granada.

Ostrowskia magnifica, Rgl. (*Gfl.* 1887, p. 638, f. 160.) Campanulaceæ. H. A very handsome and distinct per. 4–5 ft. high, with whorls of large lanceolate acute-toothed l., and a terminal raceme of large, long-stalked, erect blue fl. Calyx with a series of linear pores at the base of the long, linear, acute segments. Corolla campanulate, 3 in. long and as much in breadth. Central Asia.

Oxalis catharinensis, N. E. Br. (*G. C.* 1887, v. 1, p. 140.) Geraniaceæ. G. A distinct species with a scaly rhizome; l. with three triangular leaflets, truncate at apex with rounded angles and a very slight notch in the middle. Peduncles 4–15 flowered; fl. white with very narrow cuneate-oblong pet. Santa Catharina.

Oxalis imbricata, E. and Z., double-flowered form. (*G. C.* 1887, v. 2, p. 681, f. 129.) G. A bulbous species with hairy l. ½ in. in diam., having three broadly obcordate leaflets, which often overlap each other. Peduncles hairy 3–4 in. high, bearing one double rose pink fl. S. Africa.

Oxera pulchella, Lab. (*B. M.* t. 6938; *G. C.* 1886, v. 26, p. 786; and 1887, v. 2, p. 108.) Verbenaceæ. S. A handsome free flowering climber of striking appearance, quite glabrous. L. opposite 2–5 in. long, lanceolate obtusely pointed, entire, or with large crenations, bright green. Fl. large and showy, 2 in. long, funnel-shaped, with oblong lobes, greenish-white, pendulous in several flowered axillary cymes, stamens 2, much exserted, with two short rudimentary ones between them. New Caledonia.

Panax fruticosum, var. **multifidum,** N. E. Br. (*G. C.* 1887, v. 1, p. 544; *Veitch Cat.*, p. 11.) Araliaceæ. S. decorative shr. A form having a compact plumose crown of tripinnatisect l., with linear or linear-lanceolate segments ¼–½ in. long, tipped with a short white bristle, and often with bristle tipped teeth on their margins.

Pandanus Augustianus, Lind. and Rod. (*Ill. H.* v. 33, p. 157, pl. 612.) Pandaneæ. S. foliage plant, allied to P. Kerchovei, but with a taller stem, and broader and more densely toothed l., with green denticulate nerves. New Guinea.

Pandanus Grusonianus, Lind. and Rod. (*Ill. H.* v. 34, p. 35, pl. 12.) S. screw-pine allied to P. Kerchovei, with numerous linear l. 3 ft. long, ¾–1 in. broad, densely serrated with red spines. Admiralty Isles.

Panicum italicum, var. **japonicum.** (*Gfl.* 1887, p. 278, f. 72.) Gramineæ. H. Garden var. of **Setaria italica.**

Paphinia Lindeniana, Rchb f. (*L.* v. 3, p. 23, pl. 106.) Orchideæ. A handsome species with oblong-ovoid bulbs 2–2½ in. long, elliptic acute l., and racemes of large showy fl. Sep. and pet. lanceolate acuminate, the central part dark red-purple (broken up into lines and spots on the sep.), the margin white. Lip white with a dark purple-brown base, the front lobe hastate, with numerous filiform and papillate crests. Oronoco.

Papperitzia Leiboldi, Rchb. f. (*G. C.* 1886, v. 26, p. 680,) Orchideæ. A small orchid of botanical interest. L. 2–3 in. long, linear acuminate. Racemes lax, pendulous. Fl. small, green with yellow bristles on the sep. and pet., and some yellow on the lip. Dorsal sep. conic-gibberose with a tail-like apex; lateral sep. connate, compressed, back nearly square, apex aristate. Pet. oblong, aristate-acuminate. Lip connate with the base of column forming a blunt pouch at the base, hairy inside, and closed by a high three-toothed crest, in front of which, on the base of the oblong or cuneate blade of the lip, is another tumour-like crest.

Passiflora Watsoniana, Masters. (*G. C.* 1886, v. 26, p. 648, f. 126–127; *Gfl.* 1887, p. 340.) Passifloraceæ. G. climber, with 3-lobed l., about 2–2½ in. long by 3 in. broad, green above, violet beneath. Fl. about 3 in. in diam. Sep. narrow-oblong, horned at apex, green, with whitish margin outside, white, flushed with violet inside. Pet. similar to sep. delicate lilac. Corona of several rows of erect threads, the outer rows twice as long as the inner, violet barred with white. Brazil ?

Passiflora Weberiana, André. (*R. H.* 1887, p. 324, with pl.) S. climber, with 3-lobed acute l., cordate at base, toothed on the margin. Fl. small, whitish, violaceous outside. Fr. small, oblong, bluish-violet, covered with small tubercles. Andes of Bolivia.

Peristeria læta, Rchb. f. (*G. C.* 1887, v. 2, p. 616.) Orchideæ. Something in the way of *P. cerina.* Bulbs narrow, light green. L. long, narrow, and thin. Fl. bright yellow, sep. and pet. with dark purple spots; lip paler, dotted with indian-purple.

Peristeria selligera, Rchb. f. (*G. C.* 1887, v. 2, p. 272.) Orchideæ. Very similar to *P. pendula*, but with an armless column, and a saddle-shaped crest to the lip. Demerara.

Phaius Sedenianus, Rchb. f. (*G. C.* 1887, v. 1, p. 174.) Orchideæ. Garden hybrid.

Phalænopsis alcicornis, Rchb. f. (*G, C.* 1887, v. 1, p. 799.) Orchideæ. Something in the way of *P. grandiflora.* L. silvery green. Sep. and pet. creamy white, the sep. light yellowish outside. Lip white with yellow spots on the lobed crests, nail of the lip, side lobes, and keel of the nearly cross-shaped front lobe.

Phalænopsis Rothschildiana, Rchb. f. (*G. C.* 1887, v. 1, p. 606.) Garden hybrid.

Phalænopsis Foerstermanii. (*G. C.* 1887, v. 1, p. 244.) A small but pretty species, with cuneate-obovate, unequally bidentate l. Peduncle two-edged. Fl. small, white, with some brown lines on the cuneate-lanceolate sep. and pet. Lateral lobes of lip with a retrorse bristle and an oblique keel outside, and a yellow callus on the inner side of each; front lobe 3-toothed, with an erect fringed crest.

Phalænopsis Harriettæ, Rolfe. (*G. C.* 1887, v. 2, p. 8, f. 1.) Garden hybrid. Syn. *P. violacea-amabilis.* Rolfe.

Phalænopsis Luddemanniana, var. **heiroglyphica,** Rchb. f. (*G. C.* 1887, v. 2, p. 586.) A var. with rather narrow somewhat erect l., and narrower ochreous-white sep. and pet. marked with brown circles or spots. The lip has very short side lobes, and a narrow cuneate front lobe, with a strong keel at the base and very few hairs at the convex top. Philippines.

Phalænopsis Regnieriana, Rchb. f. (*G. C.* 1887, v. 2, p. 746.) Allied to *P. antennifera*, with very thick acute l., and racemes of rose-coloured fl. with a dark purple lip, which has small triangular side lobes, and a larger oblong-lanceolate, apiculate front lobe, much thickened underneath, the filiform processes are represented by small white teeth, and there is also a small three-lobed white crest. Siam.

Phœnix rupicola, var. **foliis argenteo variegatis.** (*Ill. H.* v. 34, p. 10, pl. 3.) Palmæ. S. A var. having the l. variegated with white. Garden variety.

Phytolacca decandra, var. **albo-variegata,** Carrière. (*R. H.* 1887, p. 16, f. 2.) Phytolaccæ, H. per. L. variegated. Garden variety.

Picea alpestris, Brugg. (*Gfl.* 1887, p. 346.) Coniferæ. H. tree. Much in the way of P. excelsa, but having the young shoots velvetty, with stiffer, shorter, and thicker l., about ½–¾ in. long, and more distinctly 4-angled. Swiss Alps.

Picea excelsa, var. **virgata,** Caspary. (*Gfl.* 1887, p. 521, f. 128.) Coniferæ. H. tree. A synonym of **Abies excelsa,** var. **monstrosa,** Loud.

Pinus austriaca, var. **foliis aureis.** (*Gfl.* 1887, p. 643.) H. tree. Garden variety.

Pinus koraiensis, var. **variegata,** Carrière. (*R. H.* 1887, p. 83.) H. Garden variety.

Piptanthus tomentosus, Franchet. (*R. H.* 1887, p. 474.) Leguminosæ. H. shr., somewhat resembling *P. nepalensis,* but clothed with a silky tomentum in all parts. Yunnan, China.

Pitcairnia Roezli, Morr. (*B. H.* v. 35, p. 285, pl. 18–19.) Bromeliaceæ. An ornamental Bromeliad, with lax tufts of broadly linear acuminate l., about 2 ft. long, with smooth edges, and very mealy beneath, and a fl.-stem about as long as the l., bright red, having green bracts with a cobwebby tomentum. The fl. are about 2½ in. long, and of a bright scarlet-red colour, arranged in a dense raceme. Organ Mountains, Brazil.

Pittosporum rhytidocarpum, A. Gr. (*Gfl.* 1887, p. 130.) Pittosporeæ. G. shr. with obovate or oblanceolate, shortly acuminate l., and terminal crowded umbels of white fl. A very pretty and useful decorative plant. Fiji.

Platanus occidentalis, var. **foliis argenteis,** Späth. (*R. H.* 1887, p. 64.) Plataneæ. H. tree. Garden variety.

Plerandra Græffei, no doubt a misprint for **P. Grayi,** Seem. (*Gfl.* 1887, p. 71.) Araliaceæ. S. A small robust tree, with dark green digitate l., having 8–10 leaflets. Fiji.

Pleurothallis insignis, Rolfe. (*G. C.* 1887, v. 1, p. 477, *B. M.* t. 6936.) Orchideæ. A very striking species, with oblong leathery l., 3–3½ in. long, 1 in. broad; peduncles 2-flowered, 2½ in. long; and fl. 2½ in. long, of a whitish pellucid green, striped with dull purple, lip dark blackish-purple, villose at the apex. Venezuela ?

Pleurothallis maculatus, N. E. Br. An insignificant species, with very short stems, elliptic obtuse fleshy l., 1¼–2¼ ins. broad, spotted with purple, and numerous minute yellow fl. spotted with crimson, the sep. united at their base and apex. Brazil ? Syn. *Cryptophoranthus maculatus,* Rolfe.

Pleurothallis picta, Lindl. (*G. C.* 1887, v. 2, p. 431.) A pretty little species, with a dense tuft of l. about 2 in. high, and racemes of small bright yellow and red fl. Demerara.

Pleurothallis tribuloides, Lindl. (*G. C.* 1887, v. 2, p. 335.) An inconspicuous species about 2 in. high, with numerous, very small, brick-red fl. Jamaica.

Podocytisus caramanicus, Boiss. (*R. H.* 1887, p. 63.) See **Laburnum caramanicum.**

Pogogyne nudiuscula, Gray. (*Gfl.* 1887, p. 113, t. 1242; *G. C.* 1887, v. 1, p. 447.) Labiatæ. H. A pretty annual 9–12 in. high, with slender puberulent branches, narrow, obtuse, glabrous l., and whorls of bright blue fl. about ½ in. long. California.

Polemonium cœruleum, var. **Himalayanum,** Baker. (*G. C.* 1887, v. 1, p. 766.) Polemoniaceæ. H. per. A var. with the inflorescence hairy, and fl. much larger than in the typical form, the corolla being 1½ in. in diam., lilac-blue. Himalaya.

Polemonium flavum, Greene. (*B. M.* t. 6965.) H. per. A distinct species 2–3 ft. high, loosely tomentose in the upper part. L. pinnate, with lanceolate segments. Cymes corymbose or panicled. Fl. light yellow, 1 in. in diam. New Mexico.

Polyscias paniculata, Baker. (*G. C.* 1887, v. 2, p. 366.) Araliaceæ. The corrected name for the S. shr. grown as *Terminalio elegans* in gardens.

Populus Eugenii, Simon. (*Gfl.* 1887, p. 674; *G. C.* 1887, v. 2, p. 818.) Salicineæ. H. tree. Garden variety of **P. canadensis.** Syn. *P. pyramidalis var. Meetensis.*

Pothos argenteus, Bull. (*Bull Cat.,* p. 11.) Araceæ. S. foliage plant of climbing habit, with obliquely ovate-acuminate l., of a silvery-grey, with the margin and a band along the mid-rib deep green. Borneo.

Pothos nitens, Bull. (*Bull Cat.,* p. 11.) S. climber with ovate acute l., obliquely cordate at base, of a dark, shining, bronzy-purplish green. Malay Archipelago.

Primula blattariformis, Franchet. (*G. C.* 1887, v. 1, p. 575.) Primulaceæ. H. per. A distinct and handsome species, clothed with short papilliform hairs, with ovate or obovate, deeply crenate, and crested l., and a raceme, 8–12 in. long, bearing numerous scattered lilac fl. with broadly obcordate lobes. Yunnan.

Primula capitata, var. (*B. M.* t. 6916, f. B.) H. H. A var. with a looser head of much larger violet-purple fl. Sikkim.

Primula obtusifolia, Royle var. (*B. M.* t. 6956; *G. C.* 1887, v. 2, p. 341.) H. A beautiful alpine primrose, with stalked, oblong, obtuse, glabrous, irregularly toothed l., and umbels of deep claret-purple fl., with

blackish-brown calyces. Sikkim. N.B. —The above is not the typical form of the species.

Primula sapphirina, Hook. fl. and Th. (*B. M.* t. 6961 A.; *G. C.* 1887, v. 2, p. 21.) H. A diminutive but elegant little species, 1½–3 in. high, with a rosette of spathulate, coarsely toothed l., ½–¾ in. long, and few-flowered umbels of nodding purple fl., about ⅓ in. in diam. Sikkim.

Primula Venzoi. (*G. C.* 1887, v. 1, p. 320.) H. Garden hybrid.

Primula vinciflora, Franchet. (*G. C.* 1887, v. 1, p. 575 f. 108.) H. per. A fine and distinct species, with cuneate-oblong ciliate l., covered with reddish sessile glands. Scape hairy, bearing one large Vinca-like, purple-violet fl., 1½ in. in diam, with a long pubescent tube, swollen at the base. Yunnan.

Pritchardia Thurstoni, Mull. and Dr. (*Gfl.* 1887, p. 486–489, f. 123 and 124, 1–8; *G. C.* 1887, v. 2, p. 341; *R. H.* 1887, p. 459.) Palmæ. S. A fine Palm with a tall stem crowned with a dense tuft of large fan-shaped, palmatisect l., from the axils of which arise the slender fl.-stems, which are longer than the l., and bear a compact panicle of fl. at their apex. Fiji.

Prunus Japonica, var. **sphærica,** Carrière. (*R. H.* 1887, p. 136.) Rosaceæ. H. shr. Garden variety.

Pseudophœnix Sargenti, Wendl. (*R. H.* 1887, p. 34.) Palmæ. S. Palm growing to 25 ft. in height, with pinnate l. 4½ ft. long, having lanceolate acuminate leaflets 12–16 in. long, glaucous beneath. Spadix panicled, about a yard long and broad. Berries ¾ in. in diam. bright orange or red. Florida.

Psychotria sulphurea, Seem. (*Gfl.* 1887, p. 130.) Rubiaceæ. S. A profuse and continuous flowering, small, climbing shr., with shining green l., and clusters of Centranthus-like bright blue fl., and sulphur-yellow berries. Fiji.

Ptelea trifoliata, var. **aurea,** Behnch. (*R. H.* 1886, p. 547.) Rutaceæ. H. tree. Garden variety.

Pteris cristata, var. **nana,** Carrière. (*R. H.* 1887, p. 90.) Filices. A garden var. of **P. serrulata.**

Pteris tremula, var. **grandiceps,** Bull. (*G. C.* 1886, v. 26, p. 757; *Bull Cat.*, p. 11.) G. Garden hybrid.

Pyrethrum Decaisneanum, Maxim. and P. **marginatum,** Miq. (*R. H.* 1887, p. 185.) See **Chrysanthemum.**

Quercus sessiliflora, var. **pendula,** Carrière. (*R. H.* 1887, p. 61.) Cupuliferæ. H. tree with pendulous branches. Garden variety.

Restrepia pandurata, Rchb. f. (*G. C.* 1887, v. 1, p. 244.) Orchideæ. An elegant species similar to R. guttulata, but larger, with a pandurate lip, having a transversely oblong front lobe, covered with warts and hairy, whitish with purple-brown spots.

Rhapis Kwamwonzick, Sieb. (*Ill. H.* v. 34, p. 39., pl. 13.) Palmæ. A slender S. Palm, growing to about 4–5 ft. high with leafy stems. Petioles unarmed. L. palmately divided into 4–7 lanceolate segments. Japan ?

Rhododendron albescens, Bull. (*Bull Cat.*, p. 11.) Ericaceæ. G. Garden variety.

Rhodendron balsaminæflorum, vars. **album** and **aureum,** Veitch. (*Veitch Cat.*, p. 12, and 6 and 7 with fig.) Garden hybrids.

Rhododendron grande, var. **roseum,** Hook, f. (*B. M.* t. 6948.) G. A variation in which a plant with whitish fl., suddenly produced deep red fl. Sikkim.

Rhododendron graveolens, Bull. (*Bull Cat.*, p. 11.) G. Garden hybrid.

Rhododendron ledifolium, var. **plena purpurea,** Regel. (*Gfl* 1886, p. 565, t. 1233, f. c–d; *R. H.* 1887, p. 143.) H. shr. Garden variety.

Rhododendron Victorianum, Cuvelier. (*G. C.* 1887, v. 1, p. 387.) Garden hybrid.

Rhododendron yedoense, Maxim. (*Gfl.* 1886, p. 565, t. 1233, f. a–b.) H. shr. The l. first produced are lanceolate, shortly acuminate, with adpressed hairs, the autumnal l. smaller, linear-spathulate, broadly petiolate, deep green. Umbels 3-flowered; calyx-lobes linear-oblong, acute, serrate, setose; corolla funnel-shaped, rose-pink. Japan.

Ricinus cambodgensis, Benary. (*Gfl.* 1887, p. 102.) Euphorbiaceæ. H. H. Probably a form of **R. communis,** with large l., and blackish stem and branches.

Robinia pseudo-acacia, var. **monophylla,** May. (*R. H.* 1887, p. 287.) Leguminosæ. H. tree. Garden variety.

Romulea Macowani, Baker. (*G. C.* 1887, v. 1, p. 184 and 180, f. 42.) Iridaceæ. G. A beautiful little bulb with linear-curved l., and crocus-like fl., 1–1½ in. in diam., which are bright golden yellow in the lower part, lighter upwards, and often tinged with red at the tips. S. Africa.

Rosa platyphylla, Red. (*R. H.* 1886, p. 436.) Rosaceæ. H. A broad-leaved form of *R. multiflora,* Thbg.

Rubus americanus of gardens is a name given by nurserymen to the old **R. villosus,** Ait. (see *G. C.* 1887, v. 2, p. 99.)

Saccolabium Pechei, Rchb. f. (*G. C.* 1887, v. 1, p. 447.) Orchideæ. L. 7 in. long, 2 in. broad, oblong, obtusely bilobed. Raceme few-flowered, fl. as large as those of *S. bellinum.* Sep. and pet. cuneate-oblong, subacute, ochreous with red spots. Lip with a cupular spur, retuse side lobes, and a transversely triangular front lobe; the base is yellow with a few red spots, the front lobe whitish. Moulmein.

Saccolabium Smeeanum, Rchb. f. (*G. C.* 1887, v. 2, p. 214.) L. very thick, with acute edges, obtuse and unequally 2-lobed at apex. Racemes dense. Fl. small, whitish with mauve mid-veins to the sep. and pet., and a mauve disk to the white lip, which latter fades to yellow and brown, the sep. and pet. fading to whitish ochre with mauve-brownish stripes. Sep. and pet. oblong. Side lobes of lip very small, oblong, midlobe oblong, acute, with a swelling under the apex. Spur short, cylindric.

Salix californica of gardens. (*Gfl.* 1887, p. 606 and 644.) Salicineæ. A var. of **S. repens,** said to be an ornamental willow for mingling with other plants.

Salix lasiandra, var. **lancifolia,** Bebb. (*Gfl.* 1887, p. 410, and 409 f. 98.) H. tree, with lanceolate acuminate l., 6–10 in. long, finely serrate on the margin; reniform stipules, and greenish-yellow catkins about 2 in. long, on short lateral shoots. California.

Sanseviera aurea variegata, Williams. (*Williams' Cat.*, p. 23.) Liliaceæ. S. A distinct-looking plant with thick, leathery, oblong-obovate l., pale green in the centre, with two broad bands of creamy white, and a narrow pale green margin.

Saxifraga media, var. **Friderici-Augusti.** (*G. C.* 1887, v. 1, p. 47.) Saxifragaceæ. H. Alpine plant of very dwarf tufted habit, with small rosettes of narrow lanceolate bright green l., and numerous yellowish fl. on short leafy stalks. Dalmatia.

Schizanthus Grahami, var. **lilacinus.** (*Gfl.* 1887, p. 665, f. 169.) Scrophulariaceæ. G. Garden variety.

Schizocasia Regnieri, Lind. and Rod. (*Ill. H.* v. 34, p. 17, pl. 6; *G. C.* 1887, v. 1, p. 421.) Araceæ. S. foliage plant, much like *S. Portei* in general appearance. Petioles pale yellowish-green, irregularly banded with rosy. Blade of l. sagittate, pinnatifid, dark green, with pale whitish-green midrib and nerves. Siam.

Schomburgkia Humboldtii, Rchb. f. (*Veitch Man. Cattl. and Lælia,* p. 101.) Orchideæ. A handsome species with fl. somewhat like those of a Lælia. Bulbs tapering, 6–8 in. long, furrowed. L. 2 to 3, oblong, leathery, 6 in. long. Fl.-stem 3–4 ft. long, paniculate. Fl. 2½–3 in. in diam. Sep. and pet. wavy, pale lilac, the pet. tinted with purple towards the apex. Lip with triangular, amethyst-purple side lobes, and a bilobed, fringed and crisped front lobe, of a bright purple streaked with paler; disk yellow, with 5–7 keels, purple towards their base. Venezuela.

Schomburgkia marginata, var. **immargiata,** Rchb. f. (*G. C.* 1887, v. 1, p. 447,) A variety with brown wavy sep. and pet. without a yellow margin; lip and column white.

Schomburgkia Thomsoniana, Rchb. f. (*G. C.* 1887, v. 2, p. 38; *Veitch Man. Cattl. and Lælia,* p. 102.) Similar to *S. tibicinis,* but smaller. Sep., light yellow, with the central part outside light mauve, with whitish dots. Pet. light sulphur, with dark purple marks on the mid-line outside. Lip with rounded, angulate side lobes, and a wavy oblong front lobe, obscurely 3-keeled, blackish-purple, with a white area near the apex, and some yellow on the front part of the keels. Syn. *Bletia Thomsoniana,* Rchb. f.

Sciadopitys verticillata, var. **variegata,** Carrière. (*R. H.* 1887, p. 83.) Coniferæ. H. Garden variety.

Scilla lingulata, Poir. (*Gfl.* 1887, p. 625, t. 1261, p. 2–4[b].) Liliaceæ. H. bulb. A pretty little species with lanceolate l., and racemes of starlike blue fl. Var. **lilacina** (f. 3) has lilac-blue fl. Var. **alba** (f. 4*a* and 4*b*) has white fl. Algeria, Morocco.

Scolopendrium officinale, var. **Valloisii.** Carrière (*R. H.* 1886, p. 447, f. 114.) Filices. H. A strong growing var. with the fronds dilated and irregularly divided and crested at their summit, forming large bunch-like tufts.

Selaginella tassellata, Bull. (*Bull Cat.* p. 11 and 3 with fig.) Lycopodiaceæ. S. An elegant species with a creeping caudex, from which arise gracefully arching, bipinnately branched stems, the branchlets ending in drooping slender spikes. Brazil.

Silphium albiflorum, A. Gr. (*B. M.* t. 6918; *R. H.* 1887, p. 192.) Compositæ. An ornamental H. per., 2–4 ft. high, scabrid. L. pinnatisect. Heads in the axils of the upper stem l., radiate 3½ in. in diam., creamy white. Texas.

Sobralia leucoxantha, Rchb. f. (*W. O. A.* v. 6, pl. 271.) Orchideæ. A beautiful species with lanceolate, acuminate, plicate l., and large white fl., with the throat and disk of the lip deep yellow, marked with orange-red lines in the tube. Costa Rica.

Sobralia xantholeuca, Williams. (*W. O. A.* v. 6, pl. 250.) A distinct and showy species, with broad, lanceolate, acute, plicate, dark green l., and very large fl., with spreading sulphur-yellow sep. and pet. and a large, crumpled, lemon-yellow lip, with a deeper yellow throat striped with orange-red.

Solanum Wendlandii, Hook. f. (*B. M.* t. 6914; *R. H.* 1887, p. 192.) Solanaceæ. S. A handsome climbing shr. with prickles on the stem and petioles. L. variable, 2–10 in. long, 1½–4 in. broad, entire, and oblong acuminate with cordate base, or 3-lobed, pinnatifid, or pinnate. Fl. in large terminal cymes, pale-lilac-purple, 2–2½ in. diam. Costa Rica.

Sophrocattleya Batemanniana, Rolfe. (*Journ. Linn. Soc.* v. 24, p. 156; *Veitch Man. Cattl. and Lælia,* p. 92, with fig.) A synonym of **Lælia Batemaniana,** Rchb. f.

Sophronitis grandiflora, var. **aurantiaca,** Carrière. (*R. H.* 1886, p. 492, with pl.) Orchideæ. A var. with dark orange-red fl.

—— Var. **purpurea,** Veitch, and var. **rosea,** Veitch. (*Veitch Man. Cattl. and Lælia,* p. 106.) The first named var. is the *S. purpurea,* Rchb. f., and the second is similar, but with bright rosy-purple fl.

Spathiglottis Regnieri, Rchb. f. (*G. C.* 1887, v. 1, p. 174.) Orchideæ. Allied to *S. Lobbii,* but with broader l., and smaller light yellow fl., having the side lobes shorter and broader, the callus, which is white with brown spots, stands more backwards, and there are no cilia on the basal angles of the long stalk. Cochin China.

Staphylea Coulombieri, André. (*R. H.* 1887, p. 462.) Sapindaceæ H. tree. Garden variety.

Statice superba, Rgl. (*Gfl.* 1887, p. 666, f. 170.) Plumbagineæ. H. annual resembling *S. Suworowi,* but with the spikes densely crowded into a pyramidal panicle.

Stellera Alberti, Rgl. (*Gfl.* 1887, p. 649, t. 1262.) Thymeleæ. H. shr., 1–2 ft. high, much branched. L. oblanceolate, obtuse, cuneate at the base, subsessile, glabrous, or the young ones minutely silky-pilose. Fl. in pedunculate heads, small, yellow. Central Asia.

Strelitzia regina, var. **citrina.** (*G. C.* 1887, v. 2, p. 816.) Scitamineæ. S. A. var. with citron-yellow sep. S. Africa.

Streptocarpus Dunnii, Hook. f. (*B. M.* t. 6903; *G. C.* 1886, v. 26, p. 625; and 1887, v. 1, p. 804; *R. H.* 1886, p. 557; and 1887, p. 166.) Gesneraceæ. G. or S. A fine and exceedingly floriferous species, with a single very large l., growing to 2 or 3 ft. long, and numerous many-flowered cymes of tubular red fl. Transvaal.

Streptocarpus kewensis, N. E. Br. (*G. C.* 1887, v. 2, p. 137, and 246, f. 61; R. H. 1887, p. 391.) G. Garden hybrid.

Streptocarpus Watsoni, N. E. Br. (*G. C.* 1887, v. 2, p. 137, and 215, f. 52.) G. Garden hybrid.

Strobilanthes attenuatus, Jacq. (*Gfl.* 1887, p. 177, t. 1243.) Acanthaceæ. G. A handsome shr. with petiolate, ovate, acuminate, serrate, dark green l., and loose panicles of violet-blue fl., marked with a yellow spot in the throat. Himalaya.

Strobilanthes coloratus, T. And. (*B. M.* t. 6922.) S. shr., glabrous. L. 5–7 in long, ovate acuminate, toothed, dark green above, purple beneath. Fl. in lax panicles, pale lilac-purple, ¾ in. in diam., with a swollen, nearly straight tube. Eastern Himalaya.

Strobilanthes flaccidifolius, Nees. (*B. M.* t. 6947; *G. C.* 1887, v. 2, p. 109.) S. A pretty shr., yielding a blue dye. L. 2–4 in. long, elliptic-lanceolate acute, narrowed into a petiole, serrate, glabrous, bright green. Fl. in loose leafy, paniculate spikes, lilac-purple; the tube of the corolla is bent, and the lobes deeply notched. India, China.

Strophanthas Ledienii, Stein. (*Gfl.* 1887, p. 145, t. 1241; *G. C.* 1887, v. 1, p. 447.) Apocyneæ. S. shr. of interesting character, with deciduous, opposite, obovate, cuspidate, subsessile, rubescent l., and terminal umbels of yellow fl. with a purple throat, appearing when the plant is bare of l. Pedicels ¾ in. long, and as well as the calyx, green. Corolla funnel-shaped, the spreading lobes with linear tails 4½–5 in. long. Congo.

Swainsonia atrococcinea, Carrière. (*R. H.* 1887, p. 275.) Leguminosæ. G. Garden variety.

Swainsonia Ferrandi, var. **alba,** Carrière. (*R. H.* 1886, p. 562.) G. Garden variety.

Syringa emodi, var. **aurea,** Behnch. (*R. H.* 1886, p. 547.) Oleaceæ. H. shr. Garden variety.

—— Var. **foliis variegatis,** Simon-Louis. (*R. H.* 1886, p. 547.) Garden variety.

Tapeinanthus humilis, Cav. (*G. C.* 1887, v. 2, p. 53.) Amaryllidaceæ. H. A small bulb, having a filiform l., and solitary yellow fl., ¾ in. in diam., on a very slender scape 2–3 in. high. The perianth is cut to the base into narrow obovate segments with a small scale at their base. Spain, Tangiers.

Tecoma Ricasoliana, Tanfani. (*Bullet. Soc. Tosc. di Orticult.*, 1887, p. 17, t. 1–2.) Bignoniaceæ. G. or S. climber. A handsome species. L. pinnate, leaflets ovate, acute, toothed. Fl. in terminal panicles, corolla with a somewhat inflated, or narrowly funnel-shaped tube, and spreading limb, delicate rose-pink, veined with darker. S. Africa. Syn. *T. Mackenii*, Watson. (*G. C.* 1887, v. 1, p. 215.)

Thrixspermum unguiculatum, Rchb. f. (*W. O. A.* v. 6, pl. 266.) Orchideæ. This, which is also known as *Phalænopsis Ruckerinana* in gardens, is a synonym of **Sarcochilus unguiculatus,** Ldl.

Thunbergia affinis, S. Moore. (*G. C.* 1887, v. 2, p. 460–1, f. 94.) Acanthaceæ. S. A handsome shr. with shortly stalked, ovate or ovate-lanceolate, bright green l., and solitary fl. 2 in. in diam., of a dark purple-blue, with a yellow throat. Zanzibar.

Tillandsia chrysostachys, Baker. (*B. M.* t. 6906; *R. H.* 1887, p. 166.) Bromeliaceæ. Syn. *Vriesia chrysostachys*, Morren.

Tillandsia fenestralis, Hook. f. (*B.M.* t. 6898.) Syn. *Vriesia fenestralis*, Lind. and André.

Tillandsia inflata, Wawra. (*R. H.* 1887, p. 44.) The corrected name for *Vriesia psittacina*, var. *Truffautiana*, Andrè.

Tillandsia reticulata, Baker. (*G. C.* 1887, v. 1, p. 140.) This is the plant also known in gardens as *Guzmannia reticulata* and *Vriesia reticulata*.

Tillandsia vestita, Cham. and Schl. (*G. C.* 1887, v. 1, p. 670.) One of the broad-spiked group. Stem short. L. not crowded, linear-subulate, 5–6 in. long, ¼ in. broad, channelled, clothed with white scales. Fl.-stem 6 in. high, fl. in a simple distchous spike, yellow, with bright red glabrous bracts. Mexico.

Torenia Fournieri, var. **compacta,** Gump. (*Gfl.* 1887, p. 667, f. 172.) Scrophulariaceæ. S. Garden variety.

Tournefortia cordifolia, Andre. (*R. H.* 1887, p. 128, f. 26, 27.) Borragineæ. G. or H. H. Shr. of bold habit, clothed with short hairs. L. opposite, growing to a ft. in length, cordate, acute, on petioles 3–4 in. long. Fl. small, white, in large terminal corymbose cymes. Trop. America.

Trichocentrum albo-purpureum, var. **striatum,** Linden. (*L.* v. 2, p. 77, pl. 85; *G. C.* 1887, v. 2, p. 108.) Orchideæ. A var. having a large purple blotch on each side of the base of the lip, and the apical part striped with the same colour.

Tridax bicolor, var. **rosea,** A. Gr. (*G. C.* 1887, v 2, p. 428, and p. 553, f. 108.) Compositæ. H. A pretty annual of dwarf habit, with stalked ovate l., slightly glandular hairy, and long-stalked heads 1½ in. in diam., with a rosy-lilac ray and yellow disk. Mexico.

Tulipa linifolia, Rgl. (*Gfl.* 1886, p. 622, t. 1235, f. d-f; *R. H.* 1887, p. 144.) Liliaceæ. H. bulb. A small species, with about three linear-lanceolate, wavy, acute l., and a bright scarlet-red fl. about 2 ins. in diam., marked with a black spot at the base of the obovate obtuse segments. Central Asia.

Ulmus campestris, var. **Berardi,** Carrière. (*R. H.* 1887, p. 63.) Ulmaceæ. H. tree. Garden variety.

Urginea eriospermoides, Baker. (*G. C.* 1887, v. 2, p. 126.) Liliaceæ. G. bulb of botanical interest, with two cylindrical, glossy l., ⅛-in. in diam.; and a fl.-stem 2 ft. high, with a raceme of small whitish fl. S. Africa.

Urginea macrocentra, Baker. (*G. C.* 1887, v. 1, p. 702.) G. bulb of botanical interest. Bulb globose 2–3 ins. in diam. Leaf solitary, terete, erect 1½ ft. long. Fl. stem 3 ft. high, stout, with a dense raceme of ascending, campanulate, white fl., tipped with green; the lowest bracts with a curious convolute spur ¾-in. long. S. Africa.

Ursinia pulchra, N. E. Br. (*G. C.* 1887, v. 1, p. 670.) Compositæ. H. annual. This is merely the familiar *Sphenogyne speciosa* of gardens, now referred to the genus **Ursinia.** S. Africa.

Vanda Amesiana, Rchb. f. (*G.C.* 1887, v. 1, p. 764; and v. 2, p. 472; *W. O. A.* v. 7, pl. 296.) Orchideæ. A charming species, having a short stem with l. like those of Aerides affine, and a long inflorescence of scented, creamy white fl., with a rosy hue. Sep. and pet. cuneate oblong, subacute, Side lobes of lip small, nearly square, front lobe reniform, two-lobed, with 3 raised lines on the disk in front of a small transverse rounded tubercle. Spur conical, compressed, short. India.

Vanda Clarkei, N. E. Br. (*Esmeralda Clarkei,* Rchb. f. *G. C.* 1886, v. 26, p. 552.) Much in the way of *V. Cathcarti,* with cuneate, oblong, obtuse sep. and pet., of a dark brown barred with ochre, yellow outside; the lateral sep. and pet. curved. Lip 3-lobed, with a conical acute spur, whitish, with brown border and areas between the keels, and some brown stripes on the side lobes. Front lobe cordate, oblong-elliptic, with a rough lobulate border, and 7–9 radiating whitish keels. Mouth of spur covered by two retrorse crests, with another crest in front. Himalaya.

Vanda Dearei, Rchb. f. (*G. C.* 1886, v. 26, p. 648. *Gfl.* 1887, p. 340.) A fine species allied to *V. tricolor,* with yellow fl. L. very acute, bidentate at apex, 1½ in. broad, yellowish-green. Sep. and pet., shortly stalked, elliptic obtuse. Lip with small squarish side lobes, and a broad, transverse, pandurate front lobe, the spur is conical and has a short, rounded, grooved crest over the front of its mouth. Sunda Isles.

Vanda Sanderiana, var. **albata,** Rchb. f. (*G. C.* 1887, v. 2, p. 9.) A variety with white upper sep. and pet. marked with a few purple spots at base, lateral sep. with the middle and outer side suffused with pale yellow and veined and spotted with red; lip pale yellow, marked with brownish-purple at the base, and brownish-yellow at the base of the front lobe, which is sometimes striped with purple.

Venidium fugax, Harv. (*G. C.* 1887, v. 2, p. 333.) Compositæ. H. annual, 1–1½ ft. high, clothed with short hairs. Radical l. stalked, elliptic, more or less sinuate or lobed, upper l. sessile, entire or slightly sinuate-toothed. Heads 1½ in. in diam., bright orange with a blackish disk. Syn. *V. calendulaceum* of gardens. S. Africa.

Venidium hirsutum, Harv. (*G. C.* 1887, v. 2, p. 332.) H. annual a foot high, clothed with soft hairs. Radical l. lyrate-pinnatifid, stalked, the upper ones sessile, oblong-lanceolate, pinnatifid. Heads 1½–1¾ in. in diam., bright orange-yellow with a blackish disk. Syn. *V. speciosum* of gardens. S. Africa.

Vicia Dennesiana, Wats. (*B. M.* t. 6967.) Leguminosæ. H. H. per. climber, of great interest, on account of its being extinct in a wild state. L. pinnate ending in branched tendrils. Racemes rather dense. Buds purple, changing to slaty-blue, and on expansion to a dingy fawn colour. Azores.

Vitis capensis, Thunb. (*R. H.* 1887, p. 372, with pl.) Ampelideæ. G. A trailing species, with reniform, obtusely angled and sinuate-toothed l., and short cymes of tomentose fl., followed by depressed-globose blackish-red berries. S. Africa.

Xanthorrhæa Preissii, Endl. (*B. M.* t. 6933.) Juncaceæ. G. One of the remarkable "Grass-trees," with a stout trunk, long, quadrangular, slender l., and a fl.-stem 1–8 ft. long, bearing a dense spike of about the same length, of greenish-yellow fl. S. W. Australia.

Zea gracillima, var. **variegata.** (*Gfl.* 1886, p. 640.) Gramineæ. Garden variety of the Maize.

Zinnia linearis, Bth. (*Gfl.* 1887, p. 667, f. 171.) Compositæ. H. annual. A beautiful species 12–18 in. high, branching from the base, with opposite, linear, or linear-lanceolate l., and solitary radiate heads of a bright deep orange colour, about 1 in. in diam. Mexico.

Zizania aquatica, L. (*Gfl.* 1886, p. 551.) Gramineæ. H. A tall aquatic grass, with broad, lanceolate acuminate l., and a large paniculate inflorescence. N. America.

Zygocolax Veitchii, Rolfe. (*G. C.* 1887, v. 1, p. 765.) See **Zygopetalum Veitchii.**

Zygopetalum Crepeauxi, Carrière. (*R. H.* 1887, p. 420.) Orchideæ. A robust, tufted species, with small angular bulbs, and shortly-stalked elliptic-ovate l. Fl. rather crowded, showy; sep. and pet. dark red spotted and striped with yellow; lip large, white with violet lines on the margin, and the nerves covered with short violet-rose hairs. Brazil.

Zygopetalum Veitchii, Veitch. (*G. C.* 1887, v. 1, p. 425.) Garden hybrid. Syn. *Zygocolax Veitchii,* Rolfe.